

SRP REQUIREMENTS FOR RESULTS OF SURVEY DOCUMENTS FOR EASEMENT ACQUISITIONS

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This document can be downloaded from:

https://www.srpnet.com/about/land/secure/survey/srp_survey_requirements.pdf

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***** SECTION 01 *****

Section 01:

01: INTRODUCTION

The focus of these requirements is to achieve an optimum degree of uniformity in the professional land survey boundary products and services submitted by SRP Customers, in support of new SRP land right easement acquisitions for power facilities and equipment.

To a high degree, the acceptability of land right acquisitions depends upon properly conducted land boundary surveys. In general, these requirements cover the SRP Land Survey Division policies, requirements, and recommendations that pertain to the appropriate minimum survey procedures.

These requirements are published and provided as an informational standard, to guide professional surveyors tasked with preparing professional survey work products that will be used by SRP for easement acquisition and facility mapping purposes.

These requirements are intended to address the normal conditions encountered on commercial projects and refer to conditions that require professional judgment and interpretations normally exercised by an Arizona Registered Land Surveyor.

These requirements are not intended to be a substitute for professional land boundary surveying knowledge, skills, abilities, experience or judgment. Although portions of these requirements include detailed directions and requirements, they are not an attempt to cover all aspects of land boundary surveying for the easement acquisition process.

It is understood that there may be circumstances and conditions that may make it impossible to comply with some provisions of these requirements. If the responsible professional surveyor must deviate from these requirements then the deviation must be noted, described, and justified by the responsible registered surveyor.

*** SECTION 02 ***

Section 02:

02: OBJECTIVES

These requirements are intended for customers, owners, developers, project managers and professional construction firms (**PARTICIPANTS**) that elect to utilize their own professional land surveying firms to produce SRP compatible Installation Record Documentation drawings and exhibits for newly constructed SRP electrical distribution facilities, power lines, and equipment.

PARTICIPANTS involved in industrial or commercial projects, where the installation of the electric distribution facilities are both extensive and likely to be accomplished in phases lasting days, weeks, or months, stand to benefit from improved project scheduling, by allowing the on-site construction management to coordinate the construction staking and supplying the Results of Survey drawings to SRP.

These requirements support those scenarios where **PARTICIPANTS** who request the installation of electric power service connections, and have the necessary professional land surveyor resources for supplying the professional documents which display and detail the required installation information, and are capable of supporting the creation and acceptance of the necessary easement acquisition documents within the required timeframe, to expedite the acquisition process.

SRP requires quality drawings since these drawings are intended for the public record, in conjunction with a land rights conveyance for utility purposes. These drawings, in some cases, will be the only record of the location of high-voltage SRP electric distribution facilities on private properties.

PARTICIPANTS shall understand what is required and acceptable under Arizona statute codes and regulatory rules, including the current Arizona Boundary Survey Minimum Standards.

***** SECTION 03 *****

Section 03: Qualification of firms and individuals responsible for the requisite land surveying professional documents.

03.1 Definition of “Firm”

The necessary field and office professional land surveying efforts shall be performed and accomplished by a Firm that is qualified to offer professional land surveying services, as regulated by the Arizona Board of Technical Registration (AZ/BTR). The current listing of qualified firms can be found at the AZ/BTR website (<http://www.btr.state.az.us/>).

Such Firms shall have appropriate and applicable professional surveyors liability insurance (aka, Errors and Omissions (E&O) Insurance), with a minimum policy requirement of two-hundred and fifty-thousand dollars (**\$250,000**). Also, the Firm shall have Workers Compensation coverage that meets all Arizona statutory requirements. It is also suggested that Firms should have the appropriate Employers’ Liability and Commercial General Liability, and Auto Liability Insurance with a combined single limit for bodily injury and property damage of not less than one million dollars (\$1,000,000) for each occurrence.

03.1 The Responsible Registrant, Professional Land Surveyor

All professional land surveying work and the required deliverables must be performed by, or under the direct supervision and responsible charge of, an Arizona registered land surveyor, who is also a principal of the Firm.

All professional land surveyor work and deliverables must comply with all applicable state, municipal, and county laws, codes, ordinances, and regulatory rules, pertaining to the practice of professional surveying in Arizona.

In performing the professional land survey assignment, as envisioned and intended by these requirements, the responsible registrant surveyor shall conduct the land survey engagement in accordance with the current Arizona Boundary Survey Minimum Standards.

***** SECTION 04 *****

Section 04: Performance Concepts

04.1 Results of Survey (ROS) documents to be furnished to SRP.

SRP requires satisfactory **ROS** drawings that adequately and accurately display the final, installed locations of all new SRP power facilities requiring easements.

Arizona statutory and regulatory requirements direct that these ROS drawings be stamped, sealed, signed and dated by the appropriate professional registrant. The drawings must also meet the prerequisites for recorded survey drawings expressed in:

Arizona Revised Statutes (ARS) Title 11, Article 3, Section 480 (ARS-11-480) and Arizona Revised Statutes (ARS) Title 11, Article 3, Section 481 (ARS-11-481).

SRP may use the ROS drawings as legal exhibits or use them to create metes and bounds written descriptions. SRP requires that all ROS drawings be developed according to the current Maricopa County Map Recordation Criteria.

Professional registrants who submit easement drawings or documents to SRP are ultimately responsible for ensuring compliance with the Arizona Boundary Survey Minimum Standards.

A set of sample drawings for a typical job has been included in the appendices of these requirements. The samples includes a Results of Survey drawing, along with a set of exhibit drawings comprised of an index sheet, exhibit drawings, and supporting detailed information.

The Maricopa County Recorder's Office (MCRO) sometimes changes its requirements. It is the duty of the professional land surveyor to be aware of the current MCRO recording requirements before submitting drawings to SRP. The MCRO recording requirements can be found on <http://recorder.maricopa.gov>.

04.2: Conceptual Scope of Work – Performance

Regarding how the PARTICIPANTS' responsible registrant, professional surveyor should perform the necessary field and office survey work to gather and display the requisite information, is within the concept of 'professional judgment' as bounded by statutory and regulatory parameters, in applying the technical knowledge and skill which would be applied by other qualified registrants who practice the same profession in the same area and at the same time. It is presumed that the work is performed with diligence and to the normal standards of the industry, including the Arizona Minimum Standards for Boundary Surveys, and any other applicable standards by governing jurisdictions.

It is presumed that the PARTICIPANTS' on-site construction management-surveyor will have access to all current internal and external design plans and drawings, and that the surveyor will have

been in charge of the construction control staking to guide the location and layout of various utility facilities, along with the on-site buildings and structures.

It is presumed that the PARTICIPANTS' surveyor is proficient in both construction and R/W acquisition surveying and in the preparation of drawing documents displaying the configurations of constructed utility facilities.

The Results of Survey drawing produced by or under the direction of the professional surveyor must allow another professional surveyor, applying similar knowledge and skills, to verify that the SRP facilities and other features represented on the drawing correlate to their actual physical locations.

The deliverables will be reviewed for accuracy, legibility, coherence, completeness, interpretability and conformity to state statutes.

The Results-of-Survey (ROS) Drawings shall include the following:

1. All evidence of control monuments and corner monuments, found or set, shall be shown and noted to indicate which were found and which were set. All evidence of monuments found beyond the immediate surveyed area ON WHICH THE SURVEY IS DEPENDENT shall be indicated and annotated. Bearings and distances to all primary and secondary electrical facilities, including tie points, must be annotated.
2. All SRP projects impacted by the sectionalized land of the Public Land Survey System (PLSS) must sufficiently tie the facilities to the closest controlling PLSS line and corner monuments by bearings and distances. If any SRP facilities fall within any type of a recorded subdivision, there must be sufficient ties between those facilities and the controlling lot corners, block corners, subdivision corners, or individual property corners, by bearing and distance.
3. Show all points where SRP facilities touch or cross parcel or property lines.
4. When an SRP facility nearly parallels a controlling PLSS line, R/W line, or property line, it shall be clearly shown by dimensioned perpendicular distance (tie) from such line to the facility, as necessary, to indicate the typical separation between the line and the facility.
5. Data necessary to indicate the mathematical dimensions and relationships of all curves shall be represented by displaying the central angle, the radius, the length of curve, the chord, and the chord bearing for each curve.
6. A bearing base or "Basis of Bearing" shall be indicated and referenced to a well-fixed bearing line so that the bearings may easily be re-established. Should the bearing base differ from referenced record title bearing, that difference shall be noted. The "North Arrow" shall be referenced to the bearing base.
7. Bearings shall be shown to the nearest second of arc in the form degrees, minutes and seconds.
8. Distances are shown, in feet, to the nearest hundredth of a foot.

9. BOTH the referenced record(s) and the field surveyed measured (or field calculated) distances and bearings shall be clearly indicated.
10. Wherever and whenever practicable, the drawing shall be oriented so that NORTH is at the top of the drawing, and in every case, referenced by a “North Arrow.”
11. The SRP job number, SRP job name, current design revision date, SRP site location coordinates, the Section, Township and Range where the site is located, and the PARTICIPANT’s or Firm’s job number for cross referencing.
12. The name of project survey crew leader person who conducted the field survey along with the completion date of the field survey.
13. The drawing shall be plotted to a suitable scale, with that scale clearly indicated by a graphic scale, in feet per inch.
14. All reference documentation, (maps, deeds, plats, etc.), whether provided to, or obtained by the PARTICIPANTS’ surveyor, from which any survey information and/or locations were based, (wholly or in part), shall be noted such that documentation can be found either in the public record or, if not a recorded document, a hard copy shall be submitted with the ROS to SRP.

04.3 Data to be displayed on the ROS

- a. All four corners of all newly installed electrical pads.
- b. All designed angle points on the newly installed underground electric alignments.
- c. Centerlines of all newly installed junction boxes and pull-boxes.
- d. Existing SRP overhead electrical and underground electrical facilities, blue stake markings, splice points, pole risers, electrical manholes, electrical equipment pads and their existing easements, etc. that connect to the newly installed SRP facilities.
(See Sample Drawings under Appendices)
- e. Building lines within 10 feet of any SRP electric line or equipment pad
- f. Overhead wire mid-span taps
- g. Underground electrical markers

*** Section 05 ***

Section 05: Survey Deliverables

05.1 REQUIRED DELIVERABLES

05.1.1 Certificate of Insurance

Survey Firms are required to provide and maintain a valid Certificate of Insurance (E&O) that meets the specifications identified in Section 03.1 of this document.

05.1.2 PAPER COPIES OF:

Original, wet-sealed drawings and exhibits.

- **RECORDABLE** 24" x 36" (Scaled) **Results Of Survey Drawings**
3 sets of paper media (See Attached Sample Drawing)
- **RECORDABLE** 8 ½" x 11" **Exhibits** (Not to scale)
3 paper copies for SRP (See Attached Sample Exhibits)
- **BOUNDARY CLOSURE REPORTS**
Prepared for all parcels affected by new SRP power facilities and equipment.

05.1.3 DIGITAL COPIES OF:

CAD files, and Coordinate Listings:

The following digital files shall be delivered to SRP

24" x 36" Result Of Survey drawings in either
MicroStation 3D DGN or AutoCad 2006 DWG format

All measured and calculated data points used to produce the results of survey drawing and exhibits should be stored on a single layer or level within the cad file. Those data points should include: recovered survey monuments, sectional and boundary control, calculated and existing electrical facilities, control points used to calculate electrical facilities, such as existing and proposed structures, wall lines, building lines, curb lines and blue-staked lines, as needed.

8 ½" x 11" (Not To Scale) Exhibits delivered in either
MicroStation 3D DGN or AutoCad 2006 DWG format

The responsible RLS registrant will ensure that a graphic representation of his/her professional seal and signature is contained inside the deliverable CAD file.

A **comma separated values (CSV)** text file listing the same data points that are stored in the CAD file control layer described above. The CSV file should include the point numbers, northings, eastings, elevations and point descriptions. The column headings should include the unit of measure, datum, and other relevant metadata. The coordinates should be local, ground and should be accompanied with the appropriate combined scale factor, if available.

5.2 Reference the Public Land Survey System (PLSS) corner monuments on the Results of Survey to the Arizona State Plane Coordinate System

All submitted **Results of Survey** drawings are required to show the reference bearings and distances to at least two **PLSS** corner monuments, (section corners and/or quarter corners) of the **PLSS** section containing the surveyed parcel. This is an Arizona recognized standard, with regards to Arizona Land Boundary Surveys.

PLSS corner monuments, shown on the ROS drawing, shall be labeled with their correct NAD83 coordinate values. Many PLSS monuments have published NAD83 coordinates, as recorded by the Maricopa County Department of Transportation GDACS program.

Land surveyors can freely access the GDACS website at:
<http://www.mcdot.maricopa.gov/Survey/Gdacs/Gdacs.htm>

Should GDACS not have any NAD-83 coordinates available for any referenced **PLSS** corner monument, that fact should be clearly noted on the Results-of-Survey drawing.

When coordinate information is available, it shall be displayed in the Arizona State Plane Grid Coordinate System, zone 202, NAD-83, in units of International Feet, with a precision of two places, right of the decimal.

SRP Land Dept / Survey Division Contact List

YOUR SRP SURVEY REPRESENTATIVE IS:

Catherine Hartman

(602) 236-6168 Mon through Fri
(SRP Public Administration Building)
1521 N. Project Drive
Tempe, AZ 85281

(Catherine.Hartman@srpnet.com)
(5:00 am to 1:30 pm)

Other SRP Survey Contacts

Todd Rakstad

Survey Manager
(602) 236-3153
(602) 809-9769 cell
Todd.Rakstad@srpnet.com

Debbie Hicks

Job Processing Coordinator
(602) 236-3171
Debbie.Hicks@srpnet.com

Stan Dickey

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Technical Supervisor
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APPENDICES

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Glossary

Electrical Terms and Abbreviations

Down Guy

A tensioned cable and associated hardware used to strengthen and stabilize a pole.

EM [Abbreviation], Electronic Marker

A device buried during construction at a stubout location on underground electric lines. EM's allow the buried stubout location to be located electronically at some point in the future. Also called potty seats because of their resemblance to same.

EPAD

[Abbreviation], Electrical Pad. Normally, refers to the concrete or fiberglass foundation that electrical equipment boxes are mounted on. EPADS typically support transformers, switches, fuses, and capacitors.

J-BOX (JUNCTION BOX)

An above ground or below ground box which houses one or more cable connections. It can serve as a point of delivery.

MST

[Abbreviation] Mid-Span Tap – A set of tee connections formed by the intersection of two sets of primary and neutral overhead electric lines.

OHE

[Abbreviation] – Overhead Electrical

Pedestal

A metal box that contains the terminating end of underground service lines, a meter loop, and a “plug-in” point for the customer’s service line.

POD

Point of Delivery. (See SES)

Primary

Usually a 12,000-volt electrical line that terminates at a transformer.

Pull Box

A prefabricated box placed in long conduit runs that simplifies the pulling of the wires.

Riser (Pole Riser)

A pole assembly that connects an underground conductor to an overhead conductor.

Secondary

An electrical line that originates at a transformer and terminates at a POD.

SES

Service Entry Section. Final electrical delivery point, usually an electrical meter.

Splice Point

Location where new UGE conductor connects to existing UGE conductor

Stub-out

A terminus point on an underground electrical conduit that is intended to be connected to and extended from at some time in the future.

Stub-up

Those electrical conduits that come out of the ground that will supply feeds to some future piece of electrical equipment, such as a transformer, switch, fuse, capacitor, or junction box.

UGE

[Abbreviation] – Underground Electrical

VALLEY COORDINATES

EAST

- 0 - 115th Avenue, Lateral 25
- 1 - 107th Avenue, Lateral 24
- 2 - 99th Avenue, Lateral 23
- 3 - 91st Avenue, Lateral 22
- 4 - 83rd Avenue, Lateral 21
- 5 - 75th Avenue, Lateral 20
- 6 - 67th Avenue, Lateral 19
- 7 - 59th Avenue, Lateral 18
- 8 - 51st Avenue, Lateral 17
- 9 - 43rd Avenue, Lateral 16
- 10 - 35th Avenue, Lateral 15
- 11 - 27th Avenue, Lateral 14
- 12 - 19th Avenue, Lateral 13
- 13 - 7th Avenue, Lateral 12
- 13.5 - Central Avenue
- 14 - 7th Street, Lateral 11
- 15 - 16th Street, Lateral 10
- 16 - 24th Street, Lateral 9
- 17 - 32th Street, Lateral 8
- 18 - 40th Street, Lateral 7
- 19 - 48th Street, Lateral 6
- 20 - 56th Street, Priest Drive
- 21 - Kyrene Road, 64th Street, Invergordon Road
- 22 - Rural Road, Scottsdale Road
- 23 - McClintock Drive, Hayden Road
- 24 - Price Road, Pima Road
- 25 - Dobson Road
- 26 - Alma School Road
- 27 - Arizona Avenue, Country Club Drive
- 28 - McQueen Road, Mesa Drive
- 29 - Cooper Road, Stapley Drive
- 30 - Gilbert Road
- 31 - Lindsay Road
- 32 - Val Vista Drive
- 33 - Greenfield Road
- 34 - Higley Road
- 35 - Recker Road
- 36 - Power Road, Bush Highway
- 37 - Sossaman Road, 76th Street
- 38 - Hawas Road, 84th Street
- 39 - Ellsworth Road
- 40 - Crismon Road
- 41 - Signal Butte Road, 108th Street
- 42 - Meridian Road
- 43 - Ironwood Drive
- 44 - Idaho Road
- 45 - Tomahawk Road
- 46 - Goldfield Road
- 47 - Mountain View Road
- 48 - Barkley Road
- 49 - Felix Road

NORTH

- 0 - Baseline Road
- 1 - Southern Avenue
- 2 - Broadway Road
- 3 - Lower Buckeye Road, University Drive, Superstition Blvd.
- 4 - Buckeye Road, Brown Road, Lost Dutchman Blvd.
- 5 - Van Buren Street, McKellips Road
- 6 - McDowell Road
- 7 - Thomas Road
- 8 - Indian School Road
- 9 - Camelback Road, Chaparral Road
- 10 - Bethany Home Road, McDonald Drive
- 11 - Glendale Avenue, Indian Bend Road
- 12 - Northern Avenue
- 13 - Olive Avenue, Dunlap Avenue, Double Tree Ranch Road
- 14 - Peoria Avenue, Shea Boulevard
- 15 - Cactus Road
- 16 - Waddell Road, Thunderbird Road
- 17 - Greenway Road
- 18 - Bell Road
- 19 - Union Hills Drive
- 20 - Beardsley Road
- 21 - Deer Valley Drive
- 22 - Pinnacle Peak Road
- 23 - Happy Valley Road

SOUTH

- 0 - Baseline Road
- 1 - Dobbins Road, Guadalupe Road
- 2 - Elliot Road
- 3 - Estrella Drive, Warner Road
- 4 - Ray Road
- 5 - Williams Field Road
- 6 - Pecos Road
- 7 - Germann Road
- 8 - Queen Creek Road
- 9 - Occotillo Road
- 10 - Chandler Heights Road
- 11 - Riggs Road, Combs Road
- 12 - Hunt Highway
- 13 - Skyline Drive
- 14 - Roberts Road
- 15 - Bella Vista Road, Gail Road
- 16 - Judd Road
- 17 - St. Peters Mission Road, Magma Road
- 18 - Casa Blanca Road, Jackrabbit Road, Arizona Farms Road

WEST

- 0 - 115th Avenue, Lateral 25
- 1 - 123rd Avenue, El Mirage Road
- 2 - 131st Avenue, Dysart Road
- 3 - 139th Avenue, Litchfield Road
- 4 - 147th Avenue, Bullard Avenue
- 5 - 155th Avenue, Reems Road
- 6 - 163rd Avenue, Sarival Avenue

SALT RIVER PROJECT

Facilities Recognition Guide

PURPOSE

This facilities recognition guide was developed through cooperation with the Water C&M and Power C&M Departments for facilities recognition purposes and is not intended as a criteria for setting or interpreting construction standards.

The intent of this guide is to provide basic information which will aid employees outside the construction and maintenance departments in identifying situations which could become potential hazards or result in electrical outages.

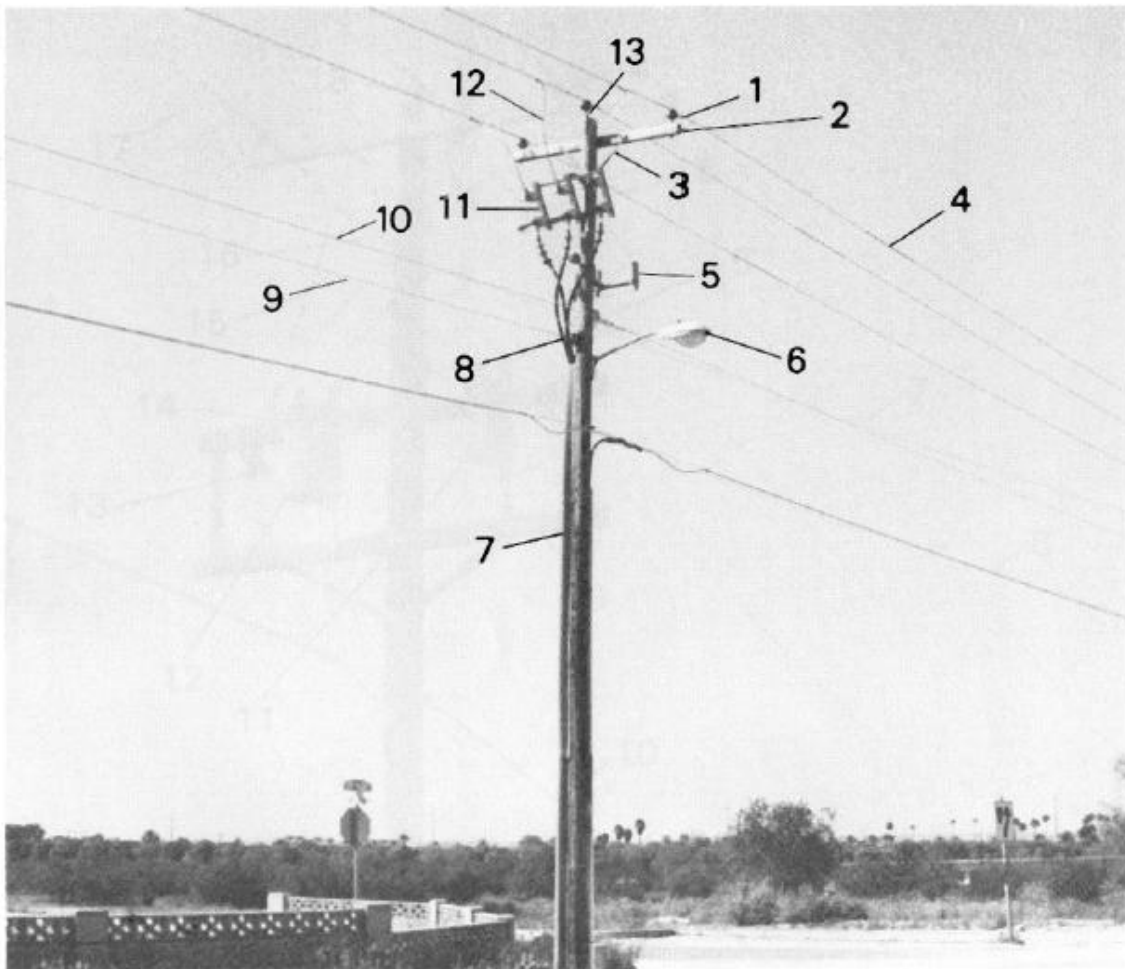
This guide is a portion of a pilot program and does not include all types of Salt River Project facilities.

This is the first edition of this guide and does not include all types of Salt River facilities. Future editions will be more comprehensive and incorporate recommendations from current users and operating groups.



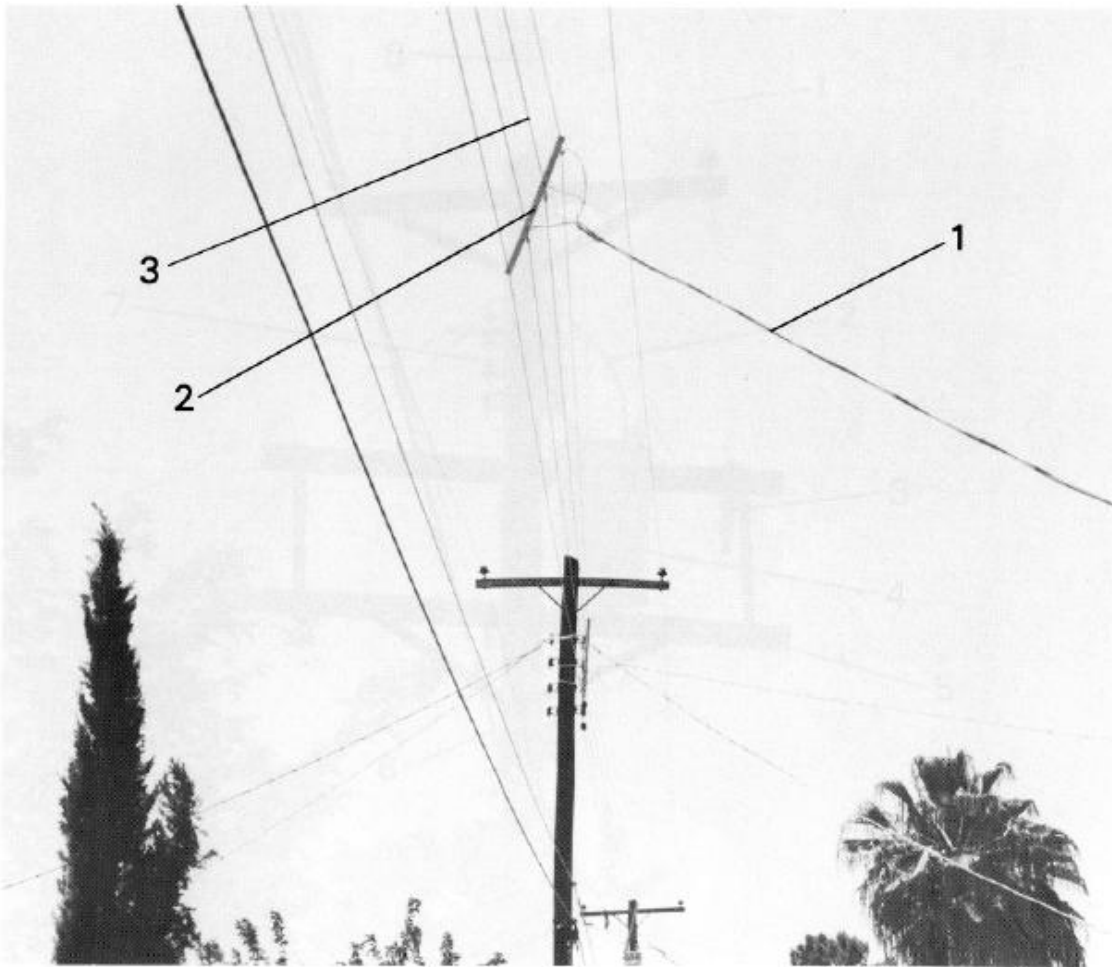
Distribution transformer—pad mount
(underground construction)

1. Transformer case
2. Transformer door
3. Size in KVA
4. SRP company number
5. Door-locking device



Overhead primary tangent pole with three-phase underground pole riser and street light. Primary voltage 12,000V phase-to-phase, 7200V phase-to-ground

1. Steel pins and insulators
2. X-Arm
3. Steel braces
4. Phase wire (overhead)
5. Lightning arrester
6. Street light
7. Pole riser
8. Underground phase conductors
9. Street light conductor
10. Neutral
11. Primary disconnects (underground)
12. Jumper wire (stingers)
13. Ridge pin and insulator

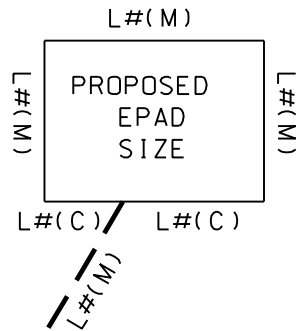


Open 3-phase secondary conductor
120/240V with single-phase service mid-
span tap.

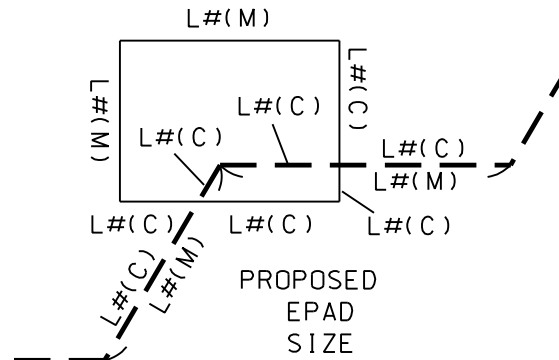
1. TX service conductor (triplex)
2. Mid-span spreader
3. Secondary conductor

GENERAL COMMENTS FOR RESULT OF SURVEY DRAWINGS

DETAIL ILLUSTRATIONS



LINE ENDS AT EPAD



LINE CONTINUES BEYOND EPAD(S)

NOTE:

IF ELECTRIC LINE TERMINATES AT AN ELECTRICAL PAD (EPAD), STOP THE UNDER GROUND LINE AT THE EDGE OF THE EPAD (LEFT DETAIL).

IF THE ELECTRIC LINE CONTINUES BEYOND AN EPAD(S), THE UNDERGROUND LINE SHOULD GO THROUGH THE PRIMARY WINDOW, THEN CONTINUE AS-STAKED OR SURVEYED.

EPADS SHOULD BE DETAILED AS NOTED ABOVE.

(M) = MEASURED DISTANCE

(C) = CALCULATED DISTANCE

THE (M) AND (C) DISTANCES MAY BE NOTED IN A LINE TABLE AND WOULD NOT NEED TO BE ADDED TO THE DISTANCES AROUND THE EPAD.

MEASURED AND CALCULATED SHOULD ALSO BE USED WHEN THE UNDERGROUND LINE CROSSES A PROPERTY LINE, A MONUMENT LINE OR A PUE LINE.

EMPHASIS SHOULD BE MADE ON THE UNDERGROUND LINE AND EQUIPMENT PADS. A HEAVIER LINE WEIGHT FOR THE UNDERGROUND LINE IS SUGGESTED.

WHERE APPLICABLE, ADD THE FOLLOWING NOTE:

"NO BUILDINGS ON SITE ARE WITHIN 10 FEET OF SRP ELECTRIC LINE(S) OR E-PAD(S)"

GENERAL COMMENTS FOR RESULT OF SURVEY DRAWINGS

ADD THESE 3 NOTES TO EXHIBIT ONLY

NOTE:
THIS EXHIBIT IS INTENDED TO
ACCOMPANY AN EASEMENT
DOCUMENT.

NOTE:
EQUIPMENT PAD(S) ARE A PART OF THE
EASEMENT UNLESS OTHERWISE NOTED.

CAUTION:
THE EASEMENT LOCATED HEREON
DELINEATED MAY CONTAIN HIGH VOLTAGE
ELECTRICAL EQUIPMENT. NOTICE IS
HEREBY GIVEN THAT THE LOCATION OF
UNDERGROUND ELECTRICAL CONDUCTORS
OR FACILITIES MUST BE VERIFIED AS
REQUIRED BY ARIZONA REVISED STATUES,
SECTION 40-380.21, ET.SWQ., ARIZONA
BLUE STAKE LAW, PRIOR TO ANY EXCAVATION.

CERTIFICATION FOR EXHIBIT & RESULT OF SURVEY DRAWINGS

"THESE RESULTS ARE BASED ON DATA GATHERED FROM FIELD SURVEY MEASUREMENT
WORK PERFORMED UNDER MY OVERALL DIRECTION. THE PURPOSE OF SAID RESULTS OF
SURVEY IS TO BECOME THE BASIS FOR THE PREPARATION OF SRP ELECTRIC AND/OR
IRRIGATION UTILITY LAND RIGHTS, DOCUMENTS AND EXHIBITS, AND IT WAS CREATED
AND/OR GATHERED SOLELY TO MEET THAT SPECIFIC PURPOSE. USAGE BY OTHERS
FOR ANY OTHER PURPOSE MAY NOT BE APPROPRIATE. IT IS ENTIRELY THE RESPONSIBILITY
OF ANY OTHER USERS TO DETERMINE ITS SUITABILITY FOR ANOTHER PURPOSE."

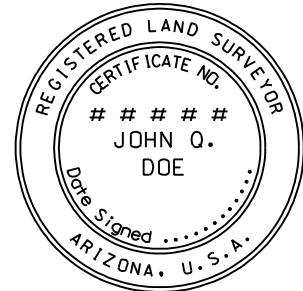
JOHN DOE

RLS *****

REGISTERED LAND SURVEYOR
[YOUR COMPANY]
[YOUR ADDRESS]
[YOUR PHONE NUMBER]

DATE

NUMBER



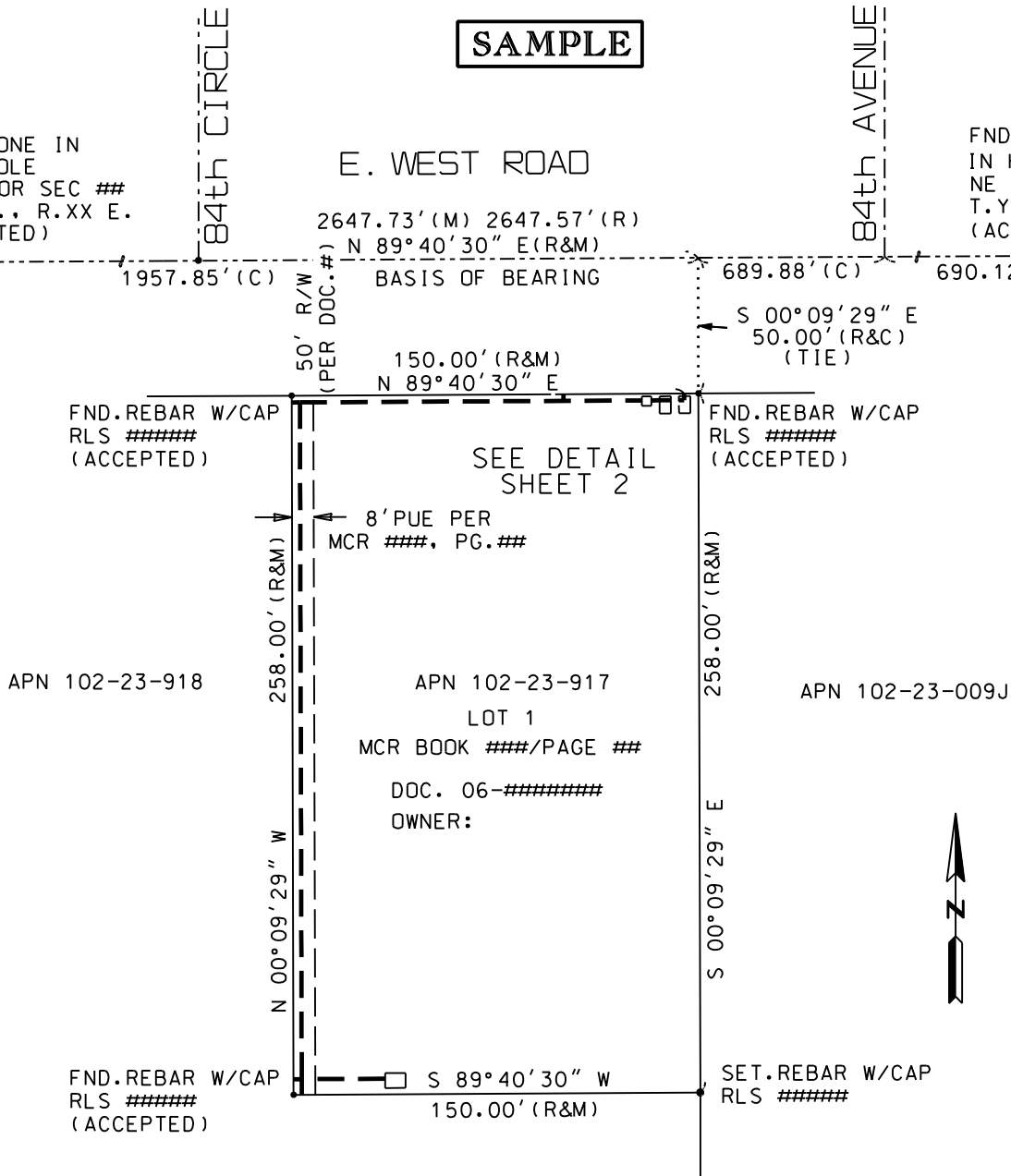
EXPIRES ###-##-####

EXHIBIT "A"

SAMPLE

FND STONE IN
HAND HOLE
N1/4 COR SEC ##
T.YY N., R.XX E.
(ACCEPTED)

FND BRASS CAP
IN HAND HOLE
NE COR SEC ##
T.YY N., R.XX E.
(ACCEPTED)



NOTE:
THIS EXHIBIT IS INTENDED TO
ACCOMPANY AN EASEMENT
DOCUMENT.

NOTE:
NO BUILDINGS ON SITE ARE WITHIN 10 FEET
OF SRP ELECTRIC LINE(S) OR E-PAD(S).

NOTE:
EQUIPMENT PAD(S) ARE A PART OF THE
EASEMENT UNLESS OTHERWISE NOTED.

BASIS OF BEARING:
NORTH LINE OF THE NE/4 OF SECTION ##,
TOWNSHIP YY NORTH, RANGE XX EAST, PER
PLAT OF ACME RETAIL CENTER RECORDED IN
BOOK ##, PAGE ## OF THE RECORDS OF
THE MARICOPA COUNTY RECORDER.

DATE OF DESIGN PRINT:

SHEET 2 - DETAIL
SHEET 3 - LEGEND AND LINE TABLE
SHEET 4 - CERTIFICATION

PREPARED FOR SRP BY:
NAME AND ADDRESS OF SURVEY COMPANY
AS SHOWN ON FIRM CARD

ACME RETAIL CENTER
3 3/16 E - 7 15/16 N
NE 1/4, SECTION ##
T.YY N., R.XX E.

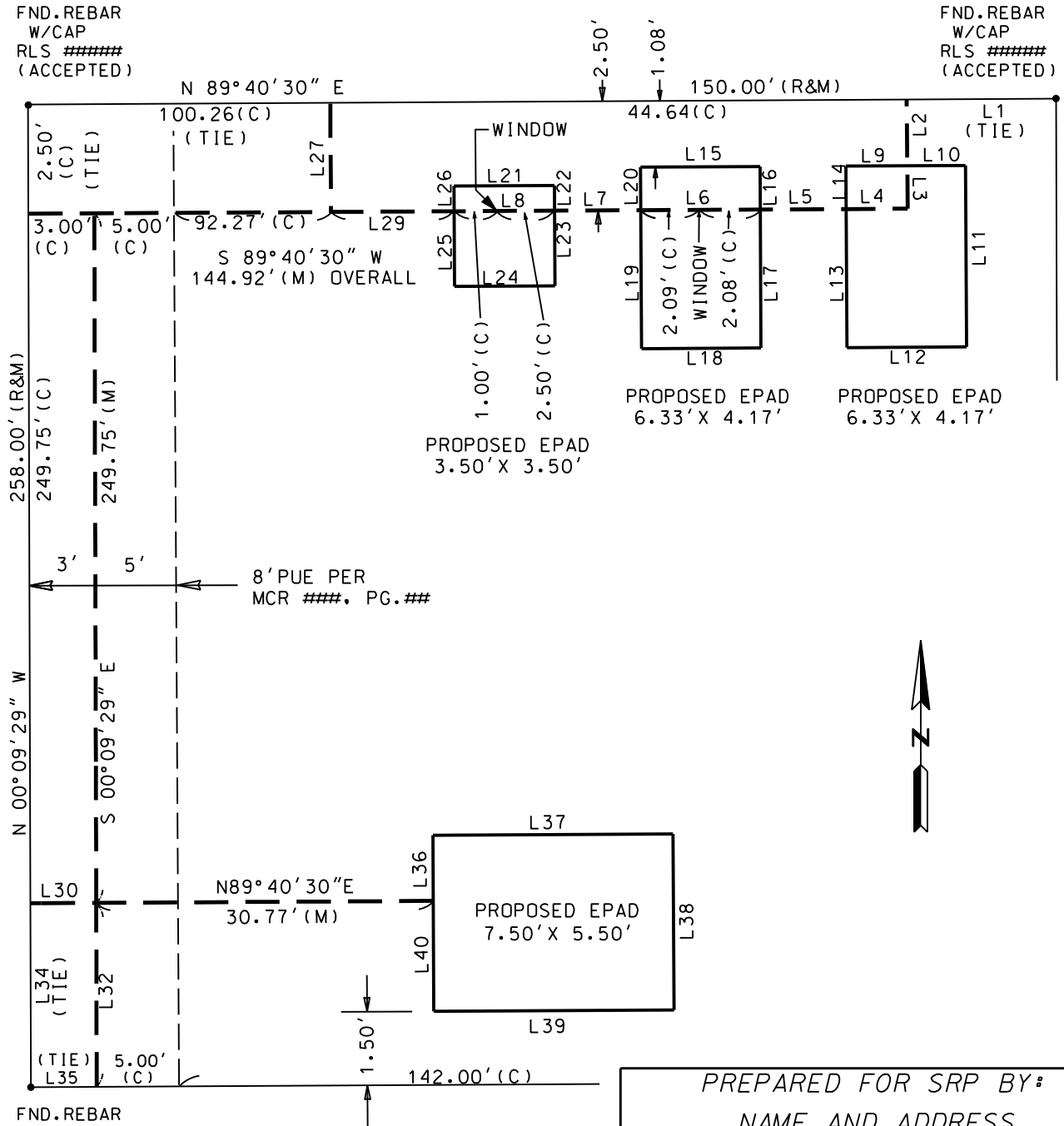
DRAWN ABC ACME JOB NO. XX
DATE ##-##-## SRP JOB NO. KJB-1526
SCALE N.T.S. SHEET 1 OF 4

EXHIBIT "A"

SAMPLE

FND. REBAR
W/CAP
RLS #####
(ACCEPTED)

FND. REBAR
W/CAP
RLS #####
(ACCEPTED)



8' PUE PER
MCR ####, PG. ##

FND. REBAR
W/CAP
RLS #####
(ACCEPTED)

PREPARED FOR SRP BY:
NAME AND ADDRESS
OF SURVEY COMPANY
AS SHOWN ON FIRM CARD

ACME RETAIL CENTER
3 3/16 E - 7 15/16 N
NE 1/4, SECTION ##
T.YY N., R.XX E.

DRAWN ABC ACME JOB NO. XX
DATE ##-##-## SRP JOB NO. KJB-1526
SCALE N.T.S. SHEET 2 OF 4

EXHIBIT "A"

SAMPLE

LEGEND	
-----	SECTION LINE
-----	CENTERLINE
-----	PROPERTY LINE
-----	C/L PROPOSED 8'
-----	ELECTRIC EASEMENT
-----	EXISTING U/G ELECTRIC
-----	(R) RECORD DOC 2012-XXXXX MCR
-----	(C) CALCULATED
-----	(M) MEASURED
●	BRASS CAP IN HANDHOLE
⊙	BRASS CAP FLUSH
●	PK NAIL FOUND
•	MONUMENT FOUND AS NOTED
○	1/2" REBAR ε CAP SET RLS XXXXXX
MCR MARICOPA COUNTY RECORDER	
APN ASSESSORS PARCEL NUMBER	
EPAD ELECTRICAL PAD	
EM ELECTRONIC MARKER	

NUMBER	DIRECTION	DISTANCE
L1	S 89° 40' 30" W	5.10' (C)
L2	S 00° 36' 06" E	1.08' (C)
L3	S 00° 36' 06" E	1.42' (C)
L4	S 89° 40' 30" W	2.09' (C)
L5	S 89° 40' 30" W	3.00' (C)
L6	S 89° 40' 30" W	4.17' (C)
L7	S 89° 40' 30" W	3.00' (C)
L8	S 89° 40' 30" W	3.50' (C)
L9	N 89° 40' 30" E	1.96' (C)
L10	N 89° 40' 30" E	2.21' (C)
L11	S 00° 19' 30" E	6.33' (M)
L12	S 89° 40' 30" W	4.17' (M)
L13	N 00° 19' 30" W	4.91' (C)
L14	N 00° 19' 30" W	1.42' (C)
L15	N 89° 40' 30" E	4.17' (M)
L16	S 00° 19' 30" E	1.42' (C)
L17	S 00° 19' 30" E	4.91' (C)
L18	S 89° 40' 30" W	4.17' (M)
L19	N 00° 19' 30" W	4.91' (C)
L20	N 00° 19' 30" W	1.42' (C)

NUMBER	DIRECTION	DISTANCE
L21	N 89° 40' 30" E	3.50' (M)
L22	S 00° 19' 30" E	0.69' (C)
L23	S 00° 19' 30" E	2.81' (C)
L24	S 89° 40' 30" W	3.50' (M)
L25	N 00° 19' 30" W	2.81' (C)
L26	N 00° 19' 30" W	0.69' (C)
L27	N 00° 19' 30" W	2.50' (C)
L28	N 00° 19' 30" W	2.38' (C)
L29	S 89° 40' 30" W	28.89' (C)
L30	S 89° 40' 30" W	3.00' (C)
L31	S 89° 40' 30" W	2.00' (C)
L32	S 00° 09' 29" E	5.75' (C)
L33	S 00° 09' 29" E	2.00' (C)
L34	N 00° 09' 29" W	5.75' (C)
L35	N 89° 40' 30" E	3.00' (C)
L36	N 00° 19' 30" W	1.25' (C)
L37	N 89° 40' 30" E	7.50' (M)
L38	S 00° 19' 30" E	5.50' (M)
L39	S 89° 40' 30" W	7.50' (M)
L40	N 00° 19' 30" W	4.25' (C)

THE COORDINATES IN THIS TABLE REPRESENT STATE PLANE COORDINATES (GRID) NAD 83 (EPOCH 1992), ARIZONA CENTRAL ZONE (202) VALUES IN INTERNATIONAL FEET COMBINED GRID FACTOR (CGF) = 1.00013517

POINT	NORTHING(Y)	EASTING(X)	DESCRIPTION
N/4 CORNER	907524.960	599460.590	FND STONE IN HH
NE CORNER	907522.596	602107.936	BRS CAP IN HH

PREPARED FOR SRP BY:
NAME AND ADDRESS OF SURVEY COMPANY
AS SHOWN ON FIRM CARD

ACME RETAIL CENTER
3 3/16 E - 7 15/16 N
NE 1/4, SECTION **
T.YY N., R.XX E.

DRAWN ABC ACME JOB NO. XX
DATE ##-##-## SRP JOB NO. KJB-1526
SCALE N.T.S. SHEET 3 OF 4

EXHIBIT "A"

SAMPLE

REFERENCE DOCUMENTS USED:

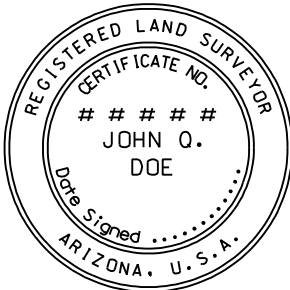
MCR ***-## PLAT
DOC. **-##### WARRANTY DEED
DOC. **-##### EASEMENT

"THESE RESULTS ARE BASED ON DATA GATHERED FROM FIELD SURVEY MEASUREMENT WORK PERFORMED UNDER MY OVERALL DIRECTION. THE PURPOSE OF SAID RESULTS OF SURVEY IS TO BECOME THE BASIS FOR THE PREPARATION OF SRP ELECTRIC AND/OR IRRIGATION UTILITY LAND RIGHTS, DOCUMENTS AND EXHIBITS, AND IT WAS CREATED AND/OR GATHERED SOLELY TO MEET THAT SPECIFIC PURPOSE. USAGE BY OTHERS FOR ANY OTHER PURPOSE MAY NOT BE APPROPRIATE. IT IS ENTIRELY THE RESPONSIBILITY OF ANY OTHER USERS TO DETERMINE ITS SUITABILITY FOR ANOTHER PURPOSE."

JOHN Q. DOE

RLS #####

REGISTERED LAND SURVEYOR DATE NUMBER
[YOUR COMPANY]
[YOUR ADDRESS]
[YOUR PHONE NUMBER]



EXPIRES ##-##-####

CAUTION:

THE EASEMENT LOCATED HEREON DELINEATED MAY CONTAIN HIGH VOLTAGE ELECTRICAL EQUIPMENT. NOTICE IS HEREBY GIVEN THAT THE LOCATION OF UNDERGROUND ELECTRICAL CONDUCTORS OR FACILITIES MUST BE VERIFIED AS REQUIRED BY ARIZONA REVISED STATUTES, SECTION 40-380.21, ET.SWQ., ARIZONA BLUE STAKE LAW, PRIOR TO ANY EXCAVATION.

SRP JOB NUMBER: KJB-1526
SRP JOB NAME: ACME RETAIL CENTER
SRP COORDINATES: 3³/₁₆E - 7¹⁵/₁₆N
FIELD CREW: ROCKY BALBOA & CLARK KENT
DATE SURVEYED: 07-01-2008

PREPARED FOR SRP BY:

NAME AND ADDRESS OF SURVEY COMPANY
AS SHOWN ON FIRM CARD

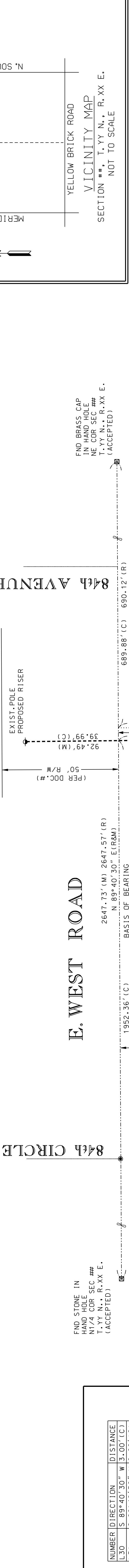
ACME RETAIL CENTER
3 3/16 E - 7 15/16 N
NE 1/4, SECTION ##
T.YY N., R.XX E.

DRAWN ABC ACME JOB NO. XX
DATE ##-##-## SRP JOB NO. KJB-1526
SCALE N.T.S. SHEET 4 OF 4

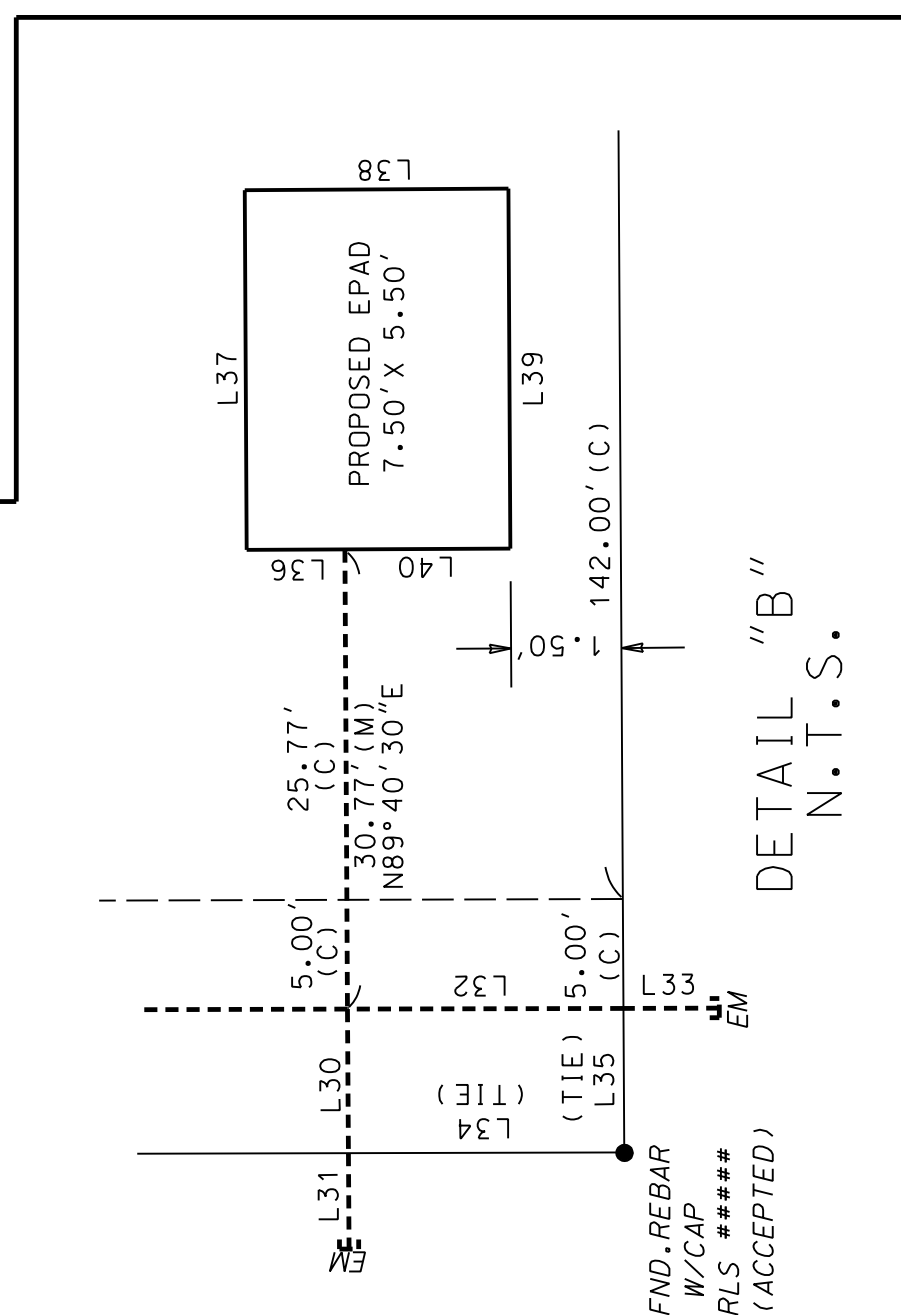
RESULTS OF SURVEY FOR EASEMENT ACQUISITION
 NE/4 SECTION **, T. YY N., R. XX E.
 GILA AND SALT RIVER MERIDIAN
 MARICOPA COUNTY, ARIZONA

THE COORDINATES IN THIS TABLE REPRESENT STATE PLANE
 COORDINATES (GRID) NAD 83 (EPOCH 1992), ARIZONA
 CENTRAL ZONE (202) VALUES IN INTERNATIONAL FEET
 COMBINED GRID FACTOR (CGF) = 1.00013517

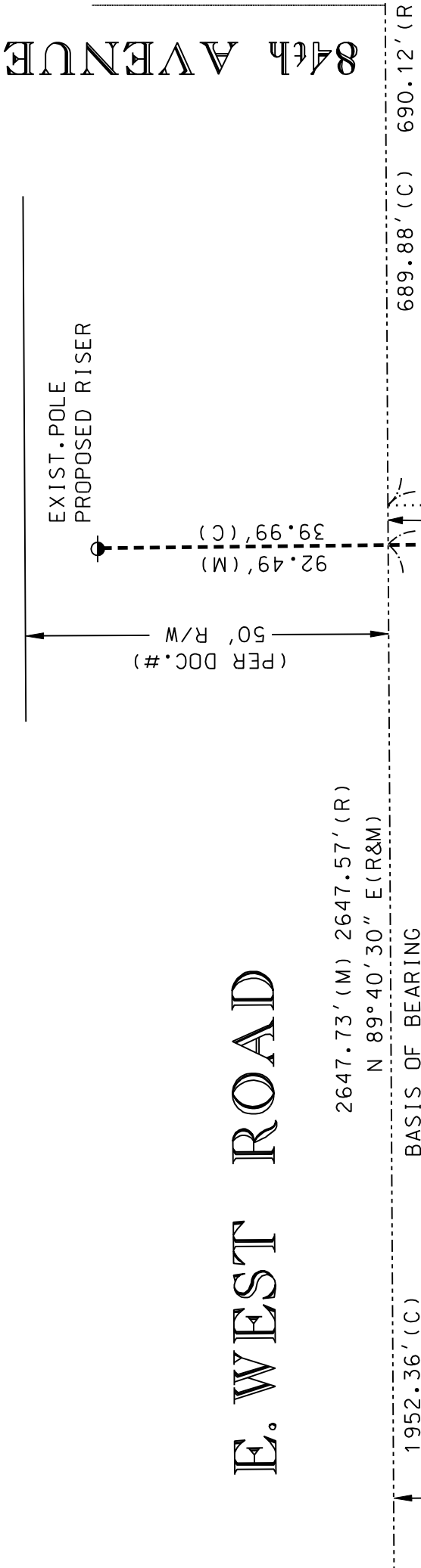
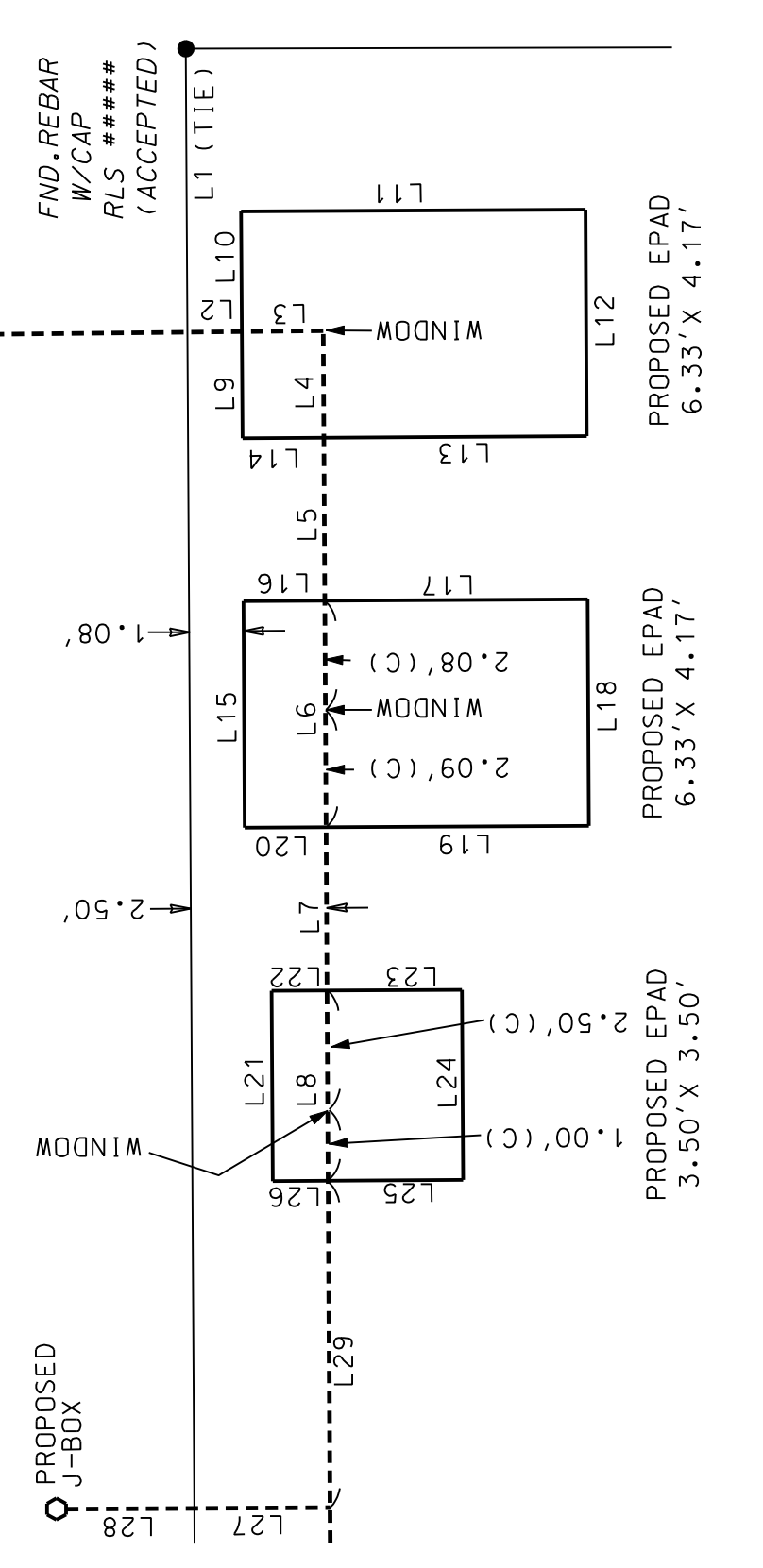
POINT	NORTHING(Y)	EASTING(X)	DESCRIPTION
N/4 CORNER	907524.960	599460.590	END STONE IN HH
NE CORNER	907522.596	602107.936	BRS CAP IN HH



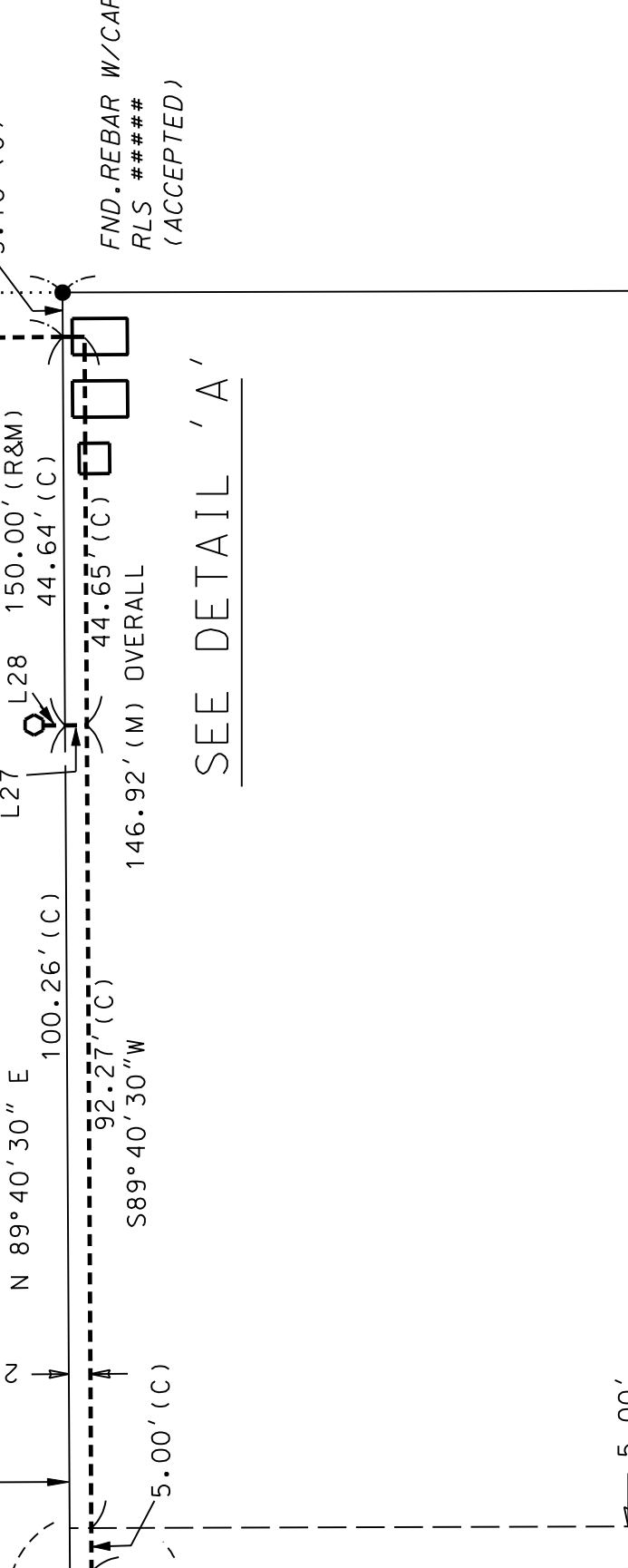
NUMBER	DIRECTION	DISTANCE
L30	S 89°40'30" W	3.00' (C)
L31	S 89°40'30" W	2.00' (C)
L32	S 00°09'29" E	5.75' (C)
L33	S 00°09'29" E	2.00' (C)
L34	N 00°09'29" E	5.75' (C)
L35	N 89°40'30" W	3.00' (C)
L36	N 00°19'30" W	1.25' (C)
L37	N 89°40'30" E	7.50' (M)
L38	S 00°19'30" E	5.50' (M)
L39	S 89°40'30" W	7.50' (M)
L40	N 00°19'30" W	4.25' (C)



NUMBER	DIRECTION	DISTANCE
L1	S 89°40'30" W	5.10' (C)
L2	S 00°36'06" E	1.08' (C)
L3	S 00°36'06" E	1.42' (C)
L4	S 89°40'30" W	2.09' (C)
L5	S 89°40'30" W	3.00' (C)
L6	S 89°40'30" W	4.17' (C)
L7	S 89°40'30" W	3.00' (C)
L8	S 89°40'30" W	3.50' (C)
L9	N 89°40'30" E	1.96' (C)
L10	N 89°40'30" E	2.21' (C)
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L12	S 89°40'30" W	4.17' (M)
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L21	N 89°40'30" E	3.50' (M)
L22	S 00°19'30" E	0.69' (C)
L23	S 00°19'30" E	2.81' (C)
L24	S 89°40'30" W	3.50' (M)
L25	N 00°19'30" W	2.81' (C)
L26	N 00°19'30" W	0.69' (C)
L29	S 89°40'30" W	28.89' (C)



NUMBER	DIRECTION	DISTANCE
L27	N 00°19'30" W	2.50' (C)
L28	N 00°19'30" W	2.38' (C)



BASIS OF BEARING
 NORTH LINE OF THE NE/4 OF SECTION ##,
 TOWNSHIP YY NORTH, RANGE XX EAST, PER
 PLAT OF ACME RETAIL CENTER RECORDED IN
 BOOK ###, PAGE ## OF THE RECORDS OF
 THE MARICOPA COUNTY RECORDER.

NOTE:
 ALL (R) RECORD, (M) MEASURED AND (C) CALCULATED
 DIMENSIONS SHOWN ON THIS DRAWING REPRESENT
 HORIZONTAL GROUND DISTANCES, REPORTED
 IN FEET AND DECIMALS OF FEET, UNLESS
 SPECIFICALLY NOTED DIFFERENTLY.

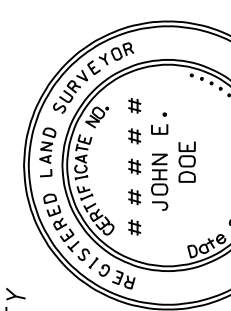
NOTE:
 NO BUILDINGS ON SITE ARE WITHIN 10 FEET
 OF SRP ELECTRIC LINE(S) OR E-PAD(S).

SRP JOB NUMBER: KJB-1526
 SRP JOB NAME: ACME RETAIL CENTER
 SRP COORDINATES: 3 3/16 E - 7 15/16 N
 FIELD CREW: ROCKY BALBOA & CLARK KENT
 DATE SURVEYED: 07-01-2008

REFERENCE DOCUMENTS USED:
 MCR ##### PLAT
 DOC. ##### WARRANTY DEED
 DOC. ##### EASEMENT

SAMPLE

CERTIFICATION:
 "THESE RESULTS ARE BASED ON DATA GATHERED FROM FIELD SURVEY MEASUREMENT
 WORK PERFORMED UNDER MY OVERALL DIRECTION. THE PURPOSE OF SAID RESULTS OF
 SURVEY IS TO BECOME THE BASIS FOR THE PREPARATION OF SRP ELECTRIC AND/OR
 IRRIGATION UTILTY, LAND RIGHTS, DOCUMENTS AND EXHIBITS, AND IT WAS CREATED
 FOR THE GATHERING OF DATA TO MEET THE PURPOSE OF THE PROJECT. THE USER
 FOR ANY OTHER PURPOSE MAY BE APPROPRIATE. THE USER SHALL BE RESPONSIBLE
 OF ANY OTHER USERS TO DETERMINE ITS SUITABILITY FOR ANOTHER PURPOSE."



REGISTERED LAND SURVEYOR
 [YOUR COMPANY]
 [YOUR ADDRESS]
 [YOUR PHONE NUMBER]

PREPARED FOR SRP BY:
 NAME AND ADDRESS OF SURVEY COMPANY
 AS SHOWN ON FIRM CARD

DRAWING SIZE: 24x36	SHEET: 7 OF 7
SCALE: 1" = 30'	FIELD DATE: ##-##-##
SRP JOB NO: KJB-1526	ACME JOB NO: ACME NO. 1
DESIGN PRINT DATE:	FIELD CREW:

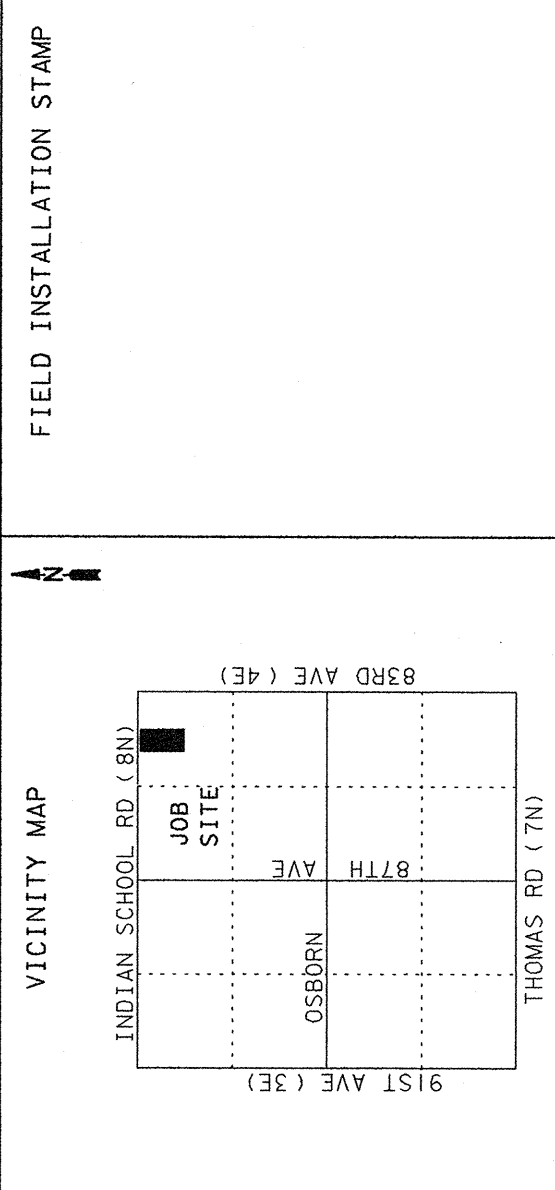
NOTES: DEVELOPER AND/OR ELECTRICAL CONTRACTOR RESPONSIBILITIES

- CALL 602-236-XXXX FOR ALL SRP INSPECTIONS. A MINIMUM 48" COVER TO BE MAINTAINED UNDER ALL ELECTRICAL INSTALLATIONS. ALL CONDUIT MUST BE MINIMUM 48" BELOW FINAL GRADE INCLUDING RETENTION AREAS.
- DESIGNER IS RESPONSIBLE FOR ALL CONDUIT, TRENCHING, & BACKFILL. DEVELOPER ALSO RESPONSIBLE FOR ALL CONDUIT, TRENCHING, & BACKFILL DELIVERED TO JOB SITE.
- DEVELOPER IS RESPONSIBLE FOR REVIEWING AND SIGNING OFF ON MATERIALS DELIVERED TO JOB SITE.
- ALL SURFACE REPAIRS AND LANDSCAPE RESTORATIONS SHALL BE THE RESPONSIBILITY OF THE DEVELOPER.
- ALL CONDUIT SHALL BE RED IN COLOR WHEN INSTALLED IN ROAD RIGHTS OF WAY OR PUBLIC UTILITY EASEMENTS UNLESS OTHERWISE NOTED. ALL FILL BELOW AND AROUND ELECTRICAL UTILITY FIXTURE FOUNDATION PADS SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY (AT OR NEAR OPTIMUM MOISTURE CONTENT) IN ACCORDANCE WITH ASTM D698. 1/2-SACK LEAN MIX SLURRY BACKFILL MAY BE PLACED IN LIEU OF COMPACTED BACKFILL.
- POINT OF DELIVERY: S.E.S. J. BOX TRANSFORMER
- METERING PER EUSER, SRP SPECS. & MUNICIPAL CODES.
- CUSTOMER TO PROVIDE & INSTALL THREE PHASE TRANSFORMER PADS (S).
- SRP TO INSPECT THE FOLLOWING: TRENCHING, CONDUIT INSTALLATION, MANHOLE, EQUIPMENT PADS(S), COMPACTION, AND SERVICE ENTRANCE SECTION.
- SUBMIT FOUR (4) COPIES OF THE PLANS FOR ALL PROPOSED 480V AMP OR LARGER SERVICE. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE CITY OF PHOENIX, ARIZONA, ELECTRICAL CODE AND ALL APPLICABLE STATE AND FEDERAL REGULATIONS. ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL ORDINANCES. SUCH DRAWINGS SHALL INDICATE THE PROJECT AND CUSTOMER NAME, JOB ADDRESS, CONTRACTORS NAME AND PHONE NUMBERS. SUBMIT PLANS TO THE FOLLOWING ADDRESS: SERVICE ENTRANCE CONSULTANT SRP BOX 52025 "MAILST" PHOENIX, AZ. 85072-2025
- DEVELOPER TO PROVIDE PROPERTY PINS AND FINAL GRADE STAKES FOR PAD AND TRENCH LOCATIONS. CONDUIT TO BE PVC, DR120, RATED FOR 90° C CABLE ASTM F512 WITH 90° 36" R ELLIS. SEE SRP ELECTRICAL SERVICE SPECIFICATIONS BOOK.
- FOR THAT PORTION OF THE FACILITY LOCATED WITHIN PUBLIC UTILITY EASEMENTS, THIS SUBMITTAL IS MADE FOR NOTIFICATION PURPOSES ONLY.
- ADDITIONAL INSTRUCTIONS:

ANY EXCEPTIONS MUST BE APPROVED BY DISTRIBUTION DESIGN

GRAPHIC SYMBOLS

- E — EXISTING ELECTRIC FACILITIES
- (E) — PROPOSED ELECTRIC TRENCH (BY CUSTOMER)
- (T) — PROPOSED SINGLE-PHASE TRANSFORMER
- (S) — PROPOSED 3 PHASE LOOP THRU TRANSFORMER
- (S) — PROPOSED SWITCHING ENCLOSURE
- (S) — PROPOSED STREET LIGHT
- (S) — PROPOSED FOREIGN STREET LIGHT } INDICATES FUTURE
- (S) — PROPOSED POLE AND RISER
- (S) — DOUBLE SLASH LINES INDICATE REMOVAL
- (S) — ELECTRONIC MARKER
- (S) — PROPOSED J-BOX
- (S) — PROPOSED STREET LIGHT CIRCUIT
- (S) — PROPOSED SERVICE
- (S) — CONDUIT



NATURAL GAS: YES NO

PROJECT LDR: JONES PHONE: 602-236-XXXX OK'D: _____ DATE: _____

CONTRACT PROJECT LDR: _____ PHONE: _____ OK'D: _____ DATE: _____

TECH: _____ DATE: _____ REVISED BY: _____

SRP RESPONSIBILITIES

TRENCHING AND BACKFILL PER UFP US PVC PLASTIC

SERVICE CONDUIT 750A PER PHASE

SERVICE CONDUCTOR 1 - 35A NEUTRALS

TRANSFORMER PAD PER SRP-S371 SM-S371

TRANSFORMER PALE RISER GUARD POST(S) J-BOX (CUSTOMER INSTALLED PER TO PROVIDE)

SURVEY TO LOCATE SURVEY TO STAKE 3RD PARTY EASEMENT REQUIRED

RIGHT-OF-WAY REQUIRED CUSTOMER PROVIDED SURVEY PROCESS

PERMIT REQUIRED: CITY OF PHOENIX COUNTY PERMIT NO. _____

JOB NAME: ACME RETAIL CENTER PHONE: _____

ADDRESS: 8411 W INDIAN SCHOOL RD PHONE: _____

ENGR: _____ DATE: _____

REQUEST # _____ J-BOX NO. _____

40/ACRE BA-27-D1 MAP 1/4 NE S21 T2N R 1E CORNER 3, 13/16E - 7, 15/16N

SRP JOB# KJB-1526

FOR CONSTRUCTION

DATE: _____

CUSTOMER PROVIDED SURVEY PROCESS

SCHEDULE PRECONSTRUCTION MEETING

ALL FOLLOW UP INSPECTIONS & FINAL INSPECTION

DESIGNER: SMITH

PHONE: (602) 236-XXXX

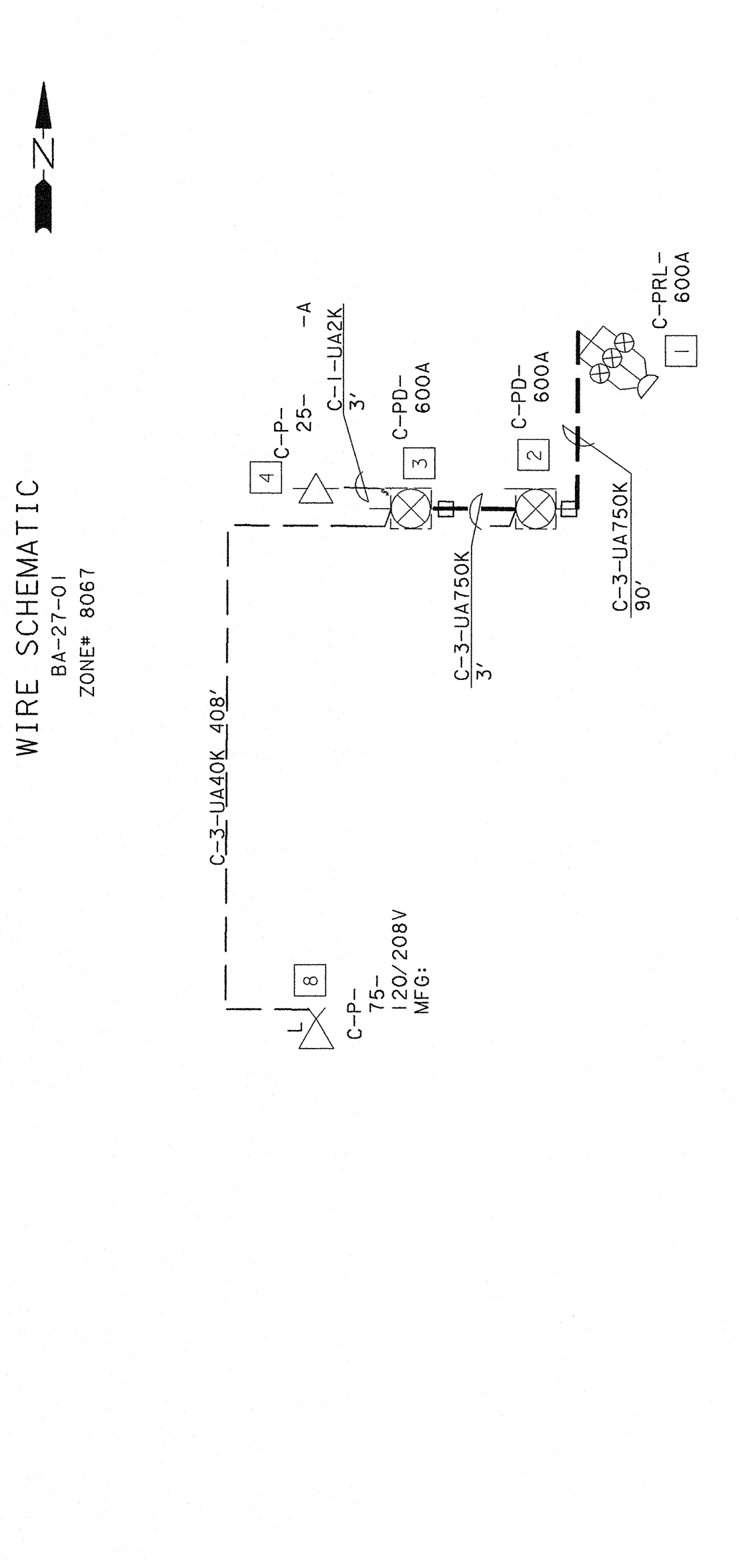
MBL PHN: (602) 818-XXXX

REVISED

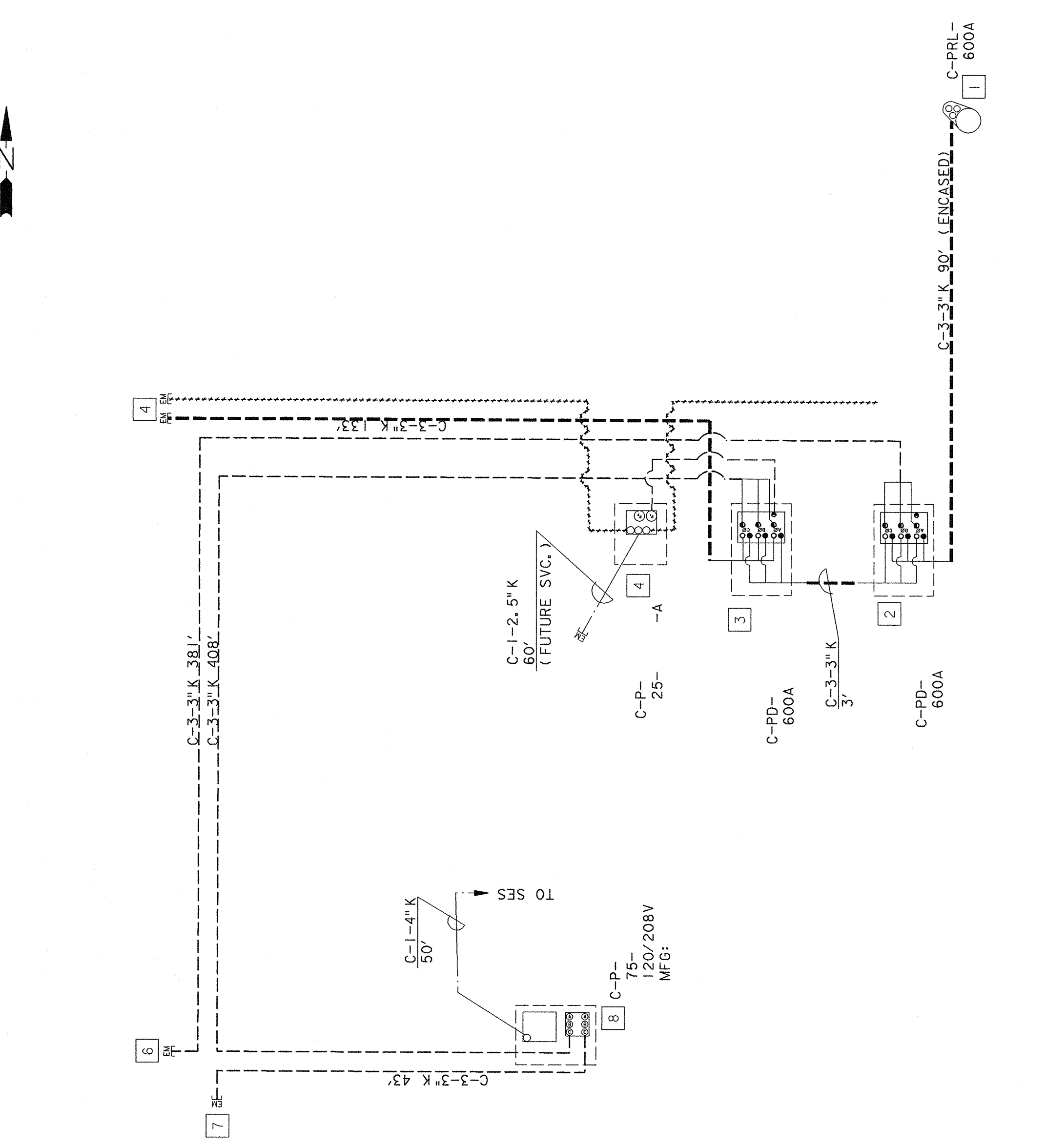
DATE	TYPE

BIOGEN JOB 12-15-2003

SHEET 1 OF 2



CONDUIT ONE LINE



CONTACTS

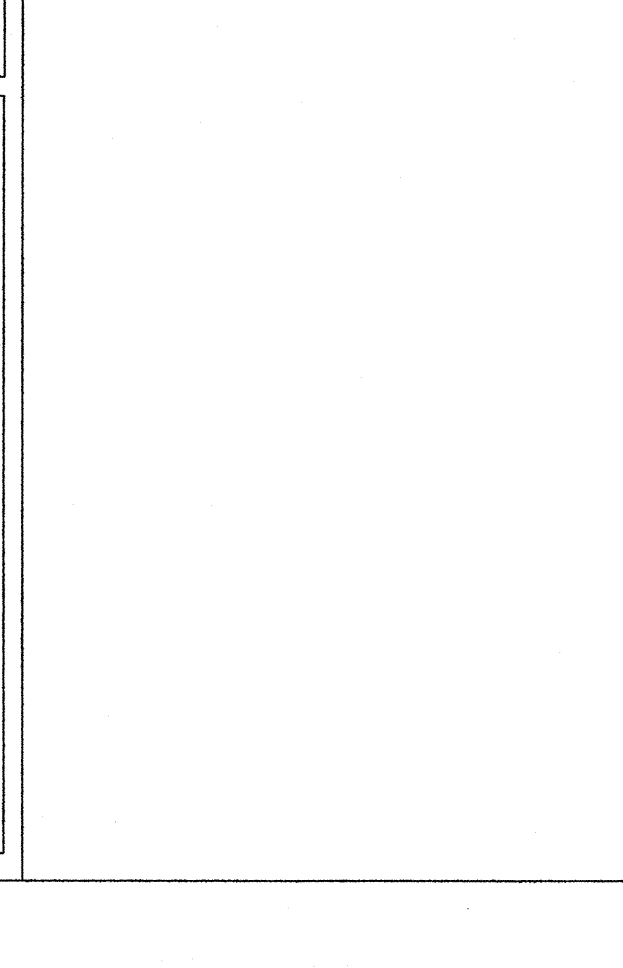
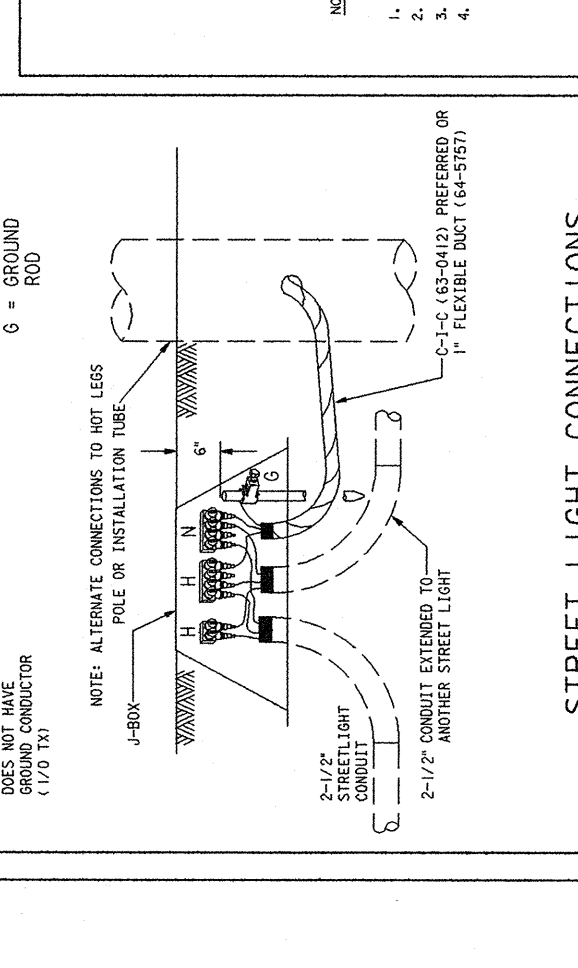
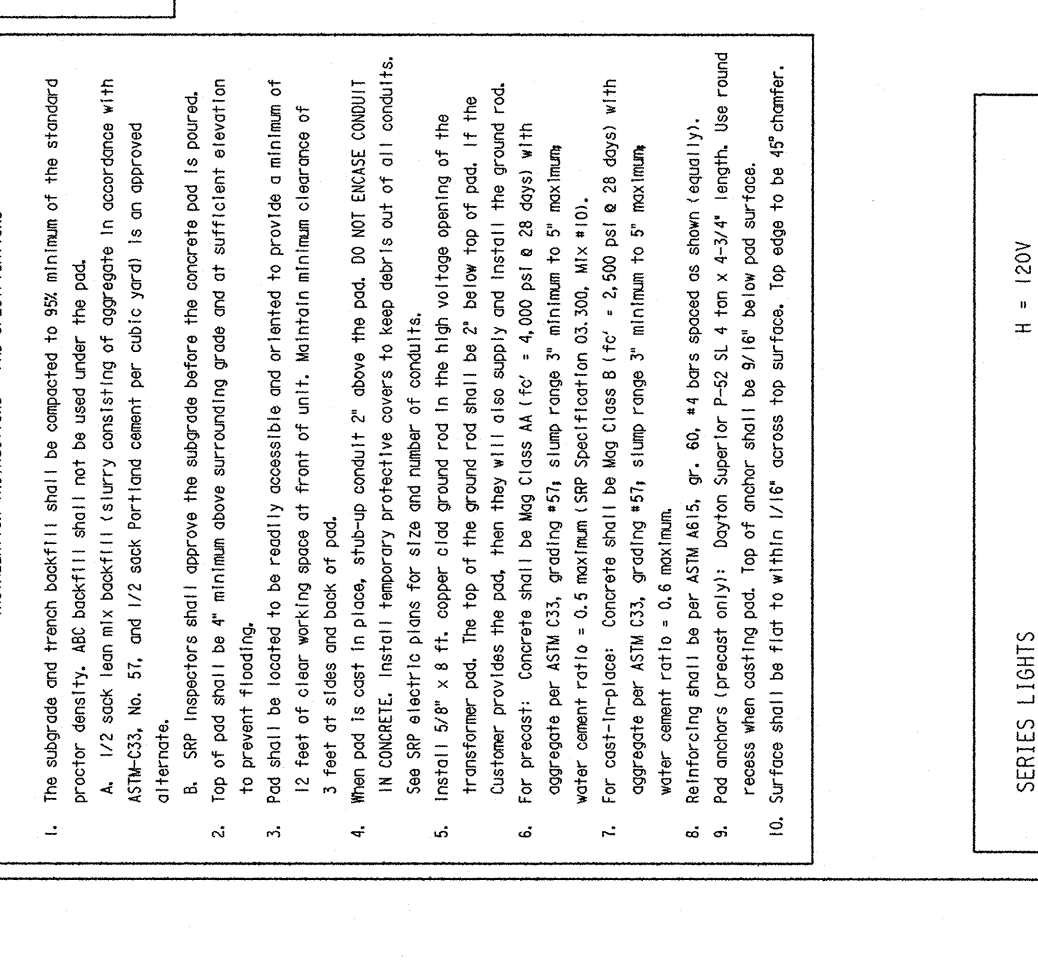
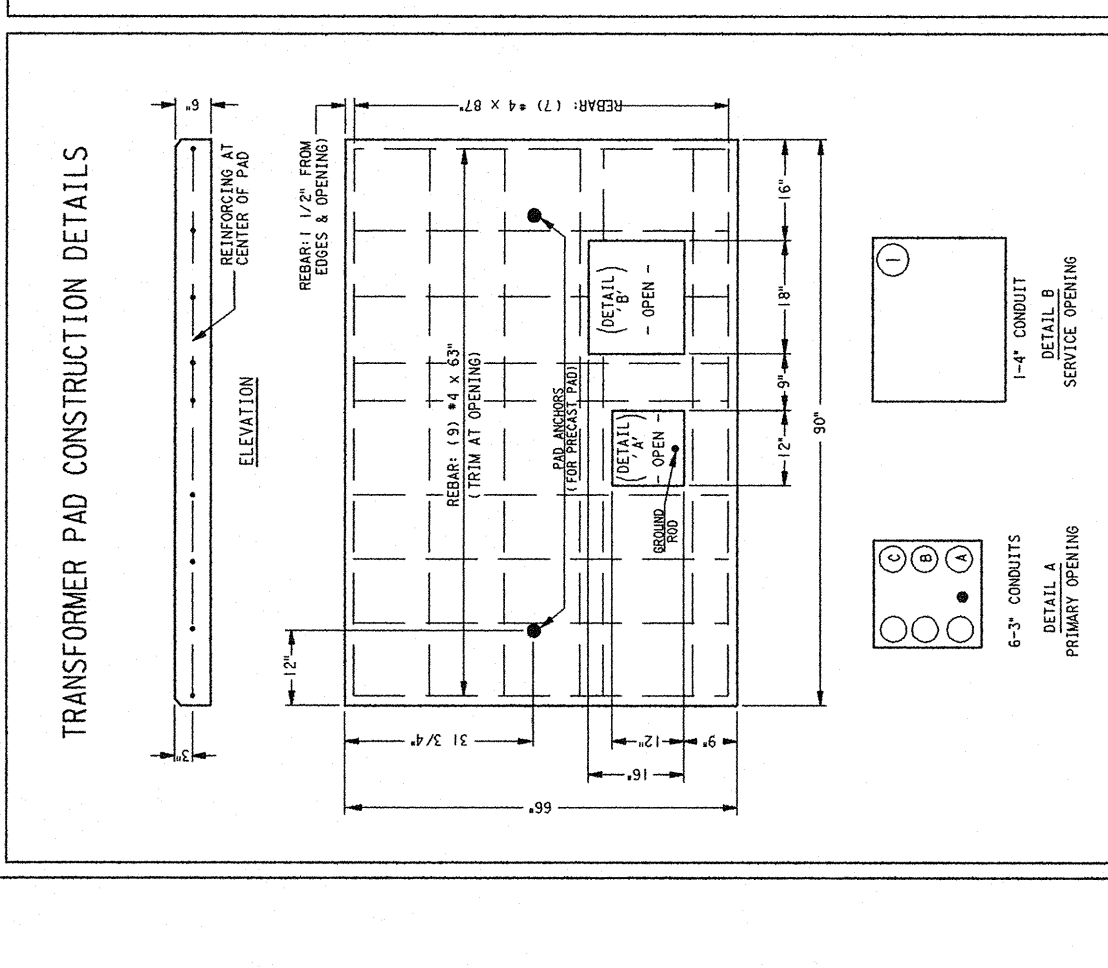
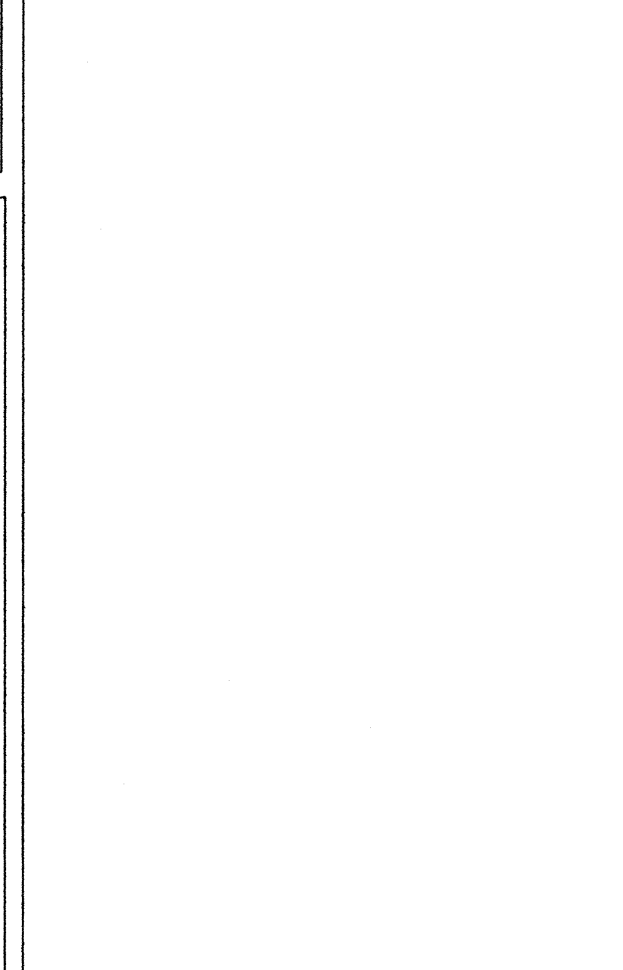
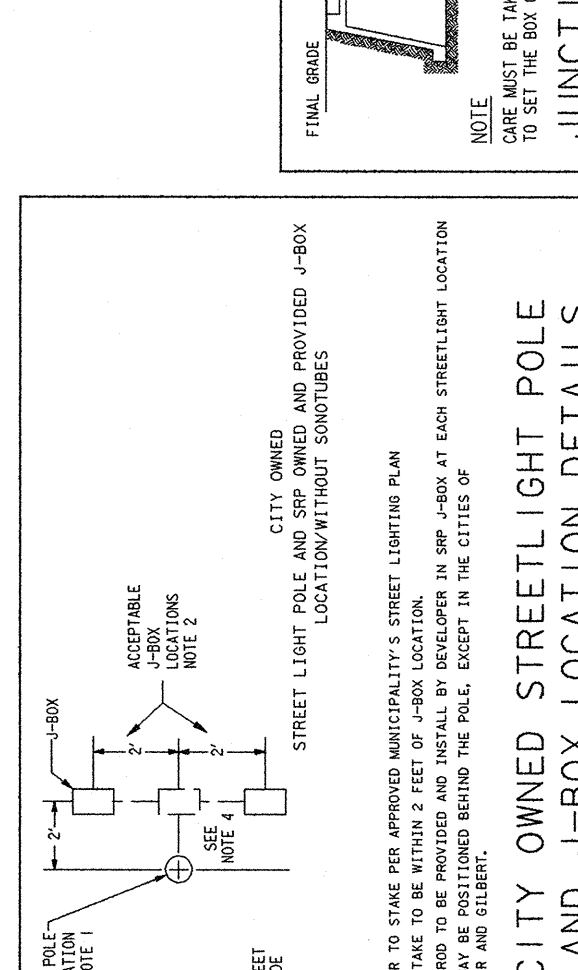
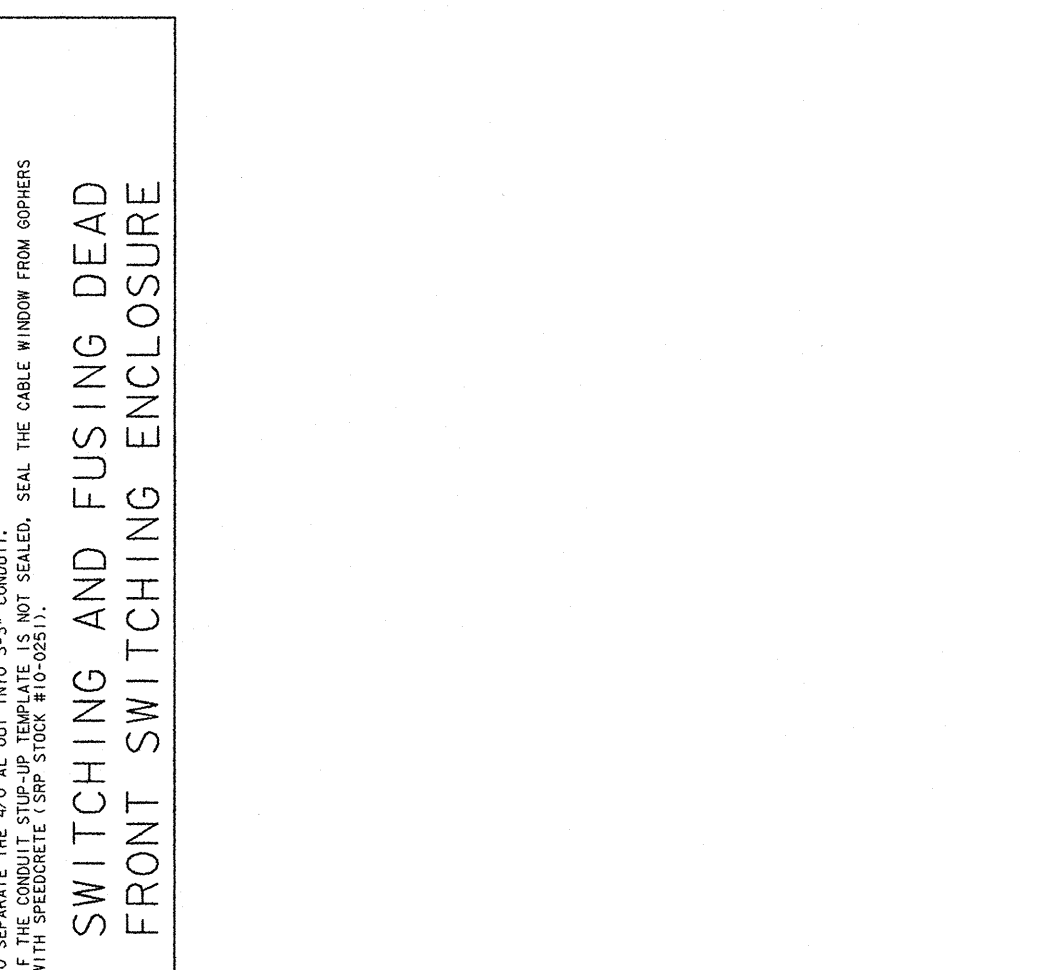
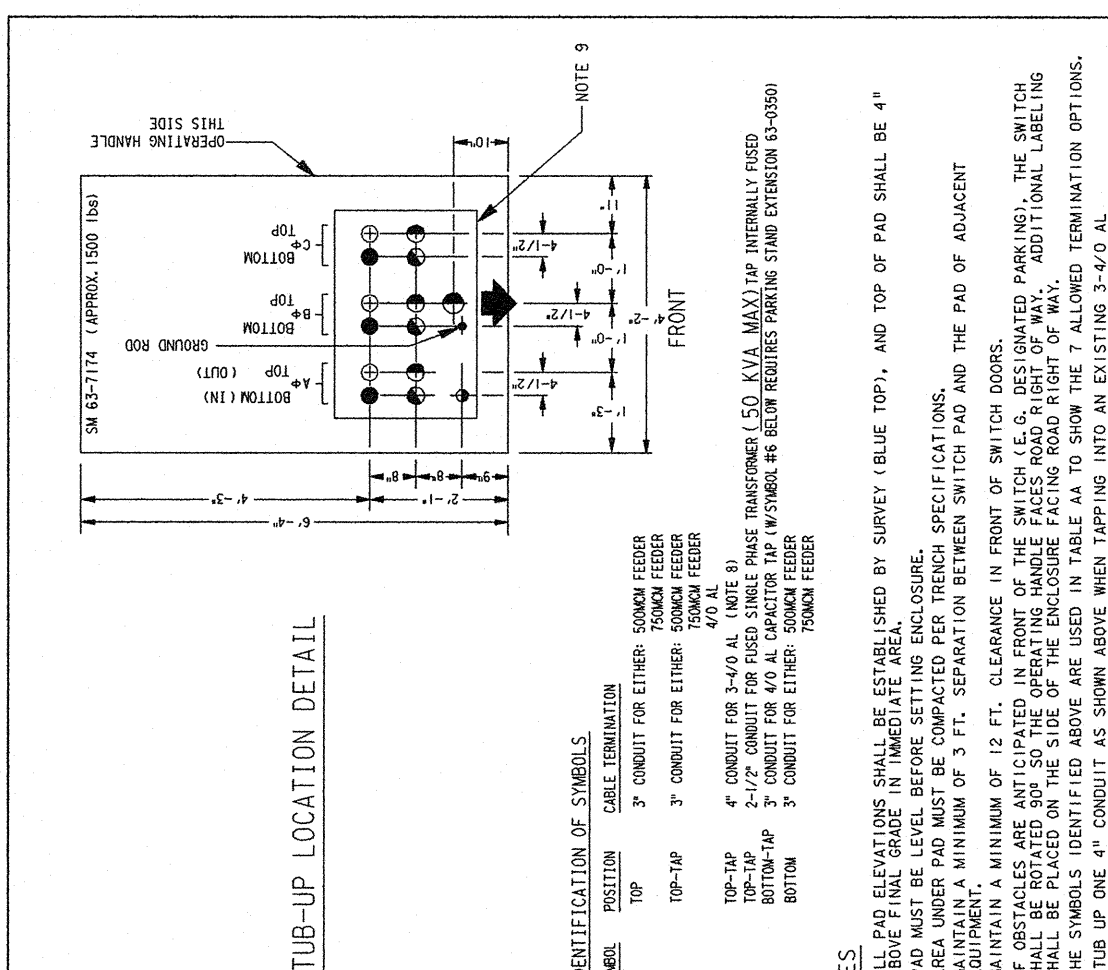
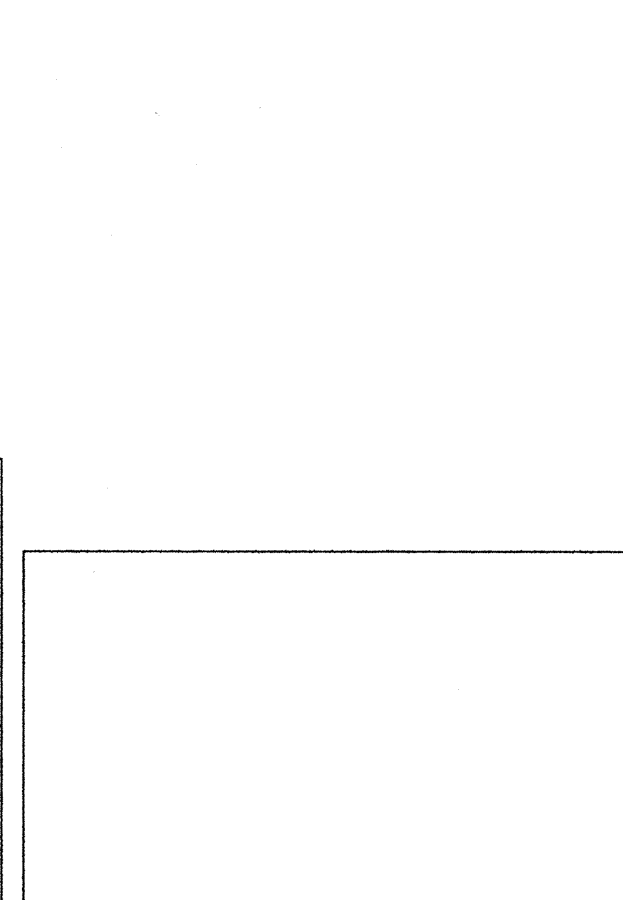
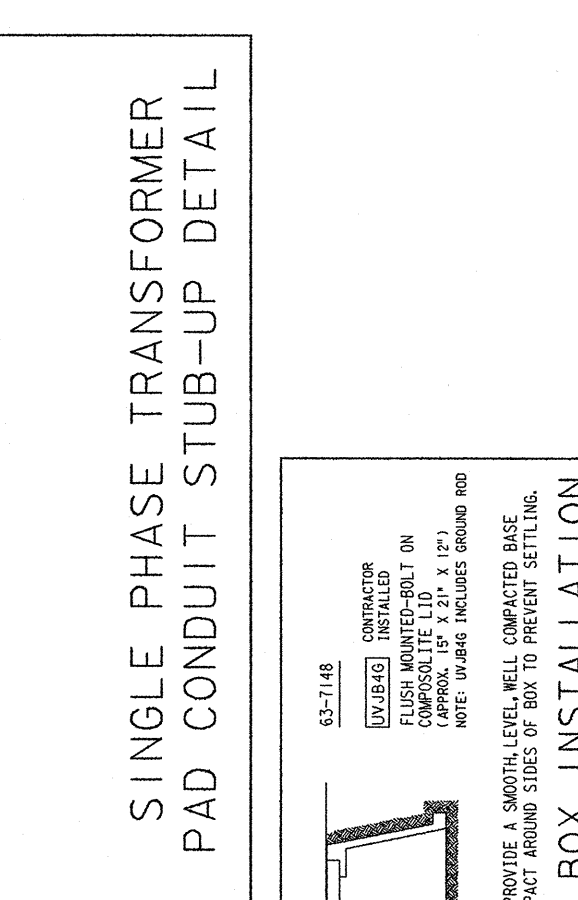
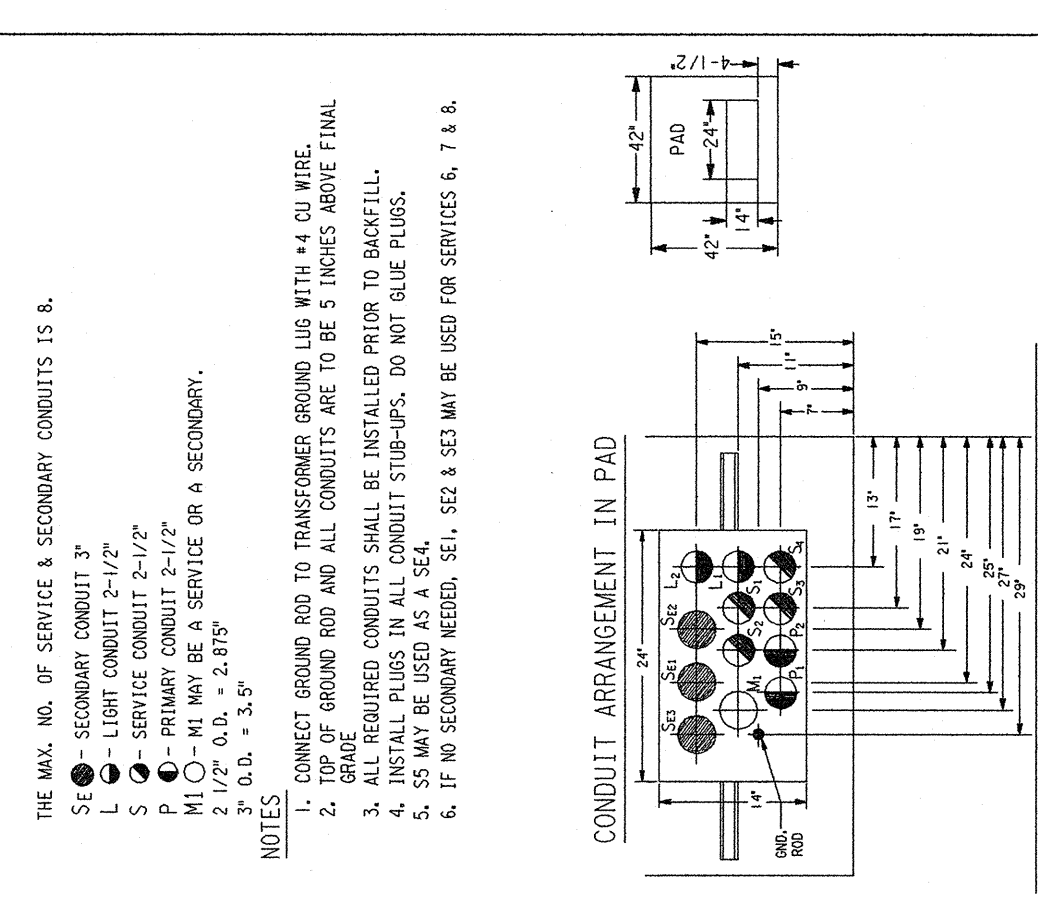
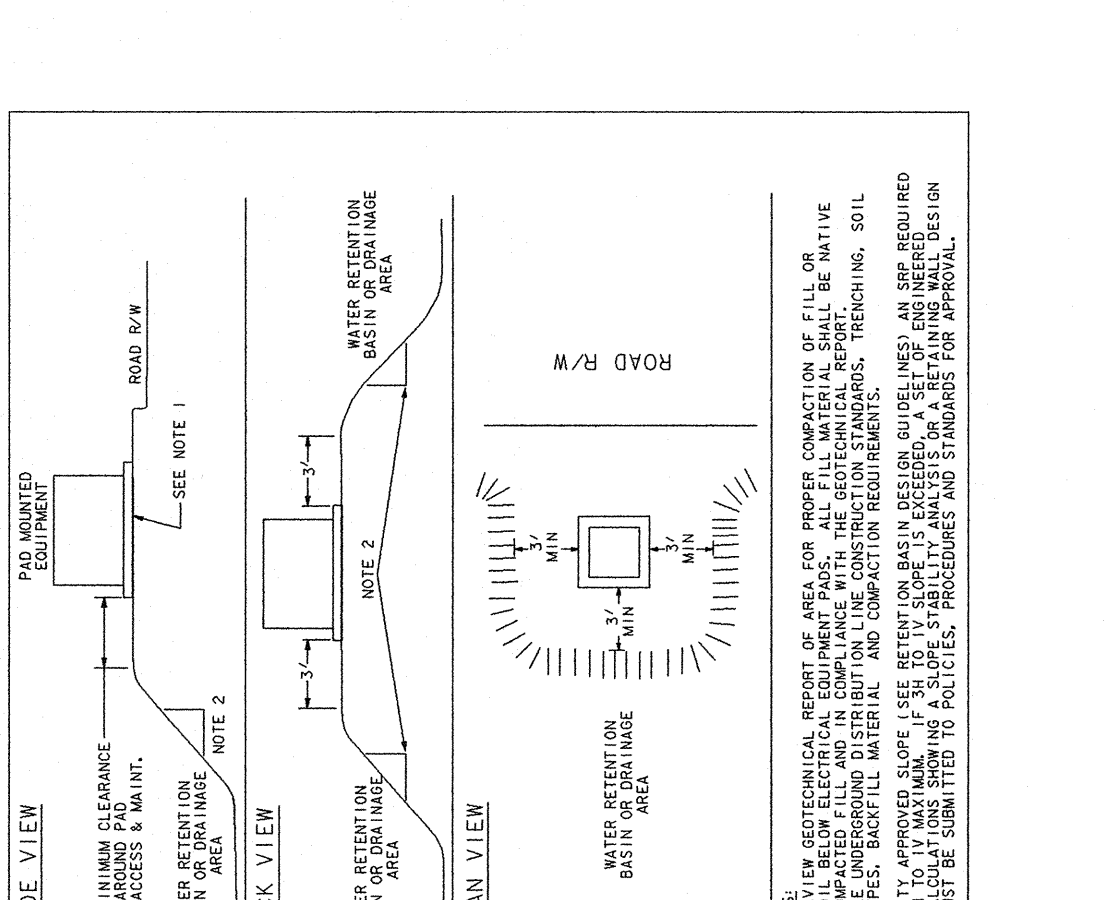
INSPECTIONS PHONE: (602) 236-XXXX

(TO SCHEDULE PRECONSTRUCTION MEETING & FINAL INSPECTION)

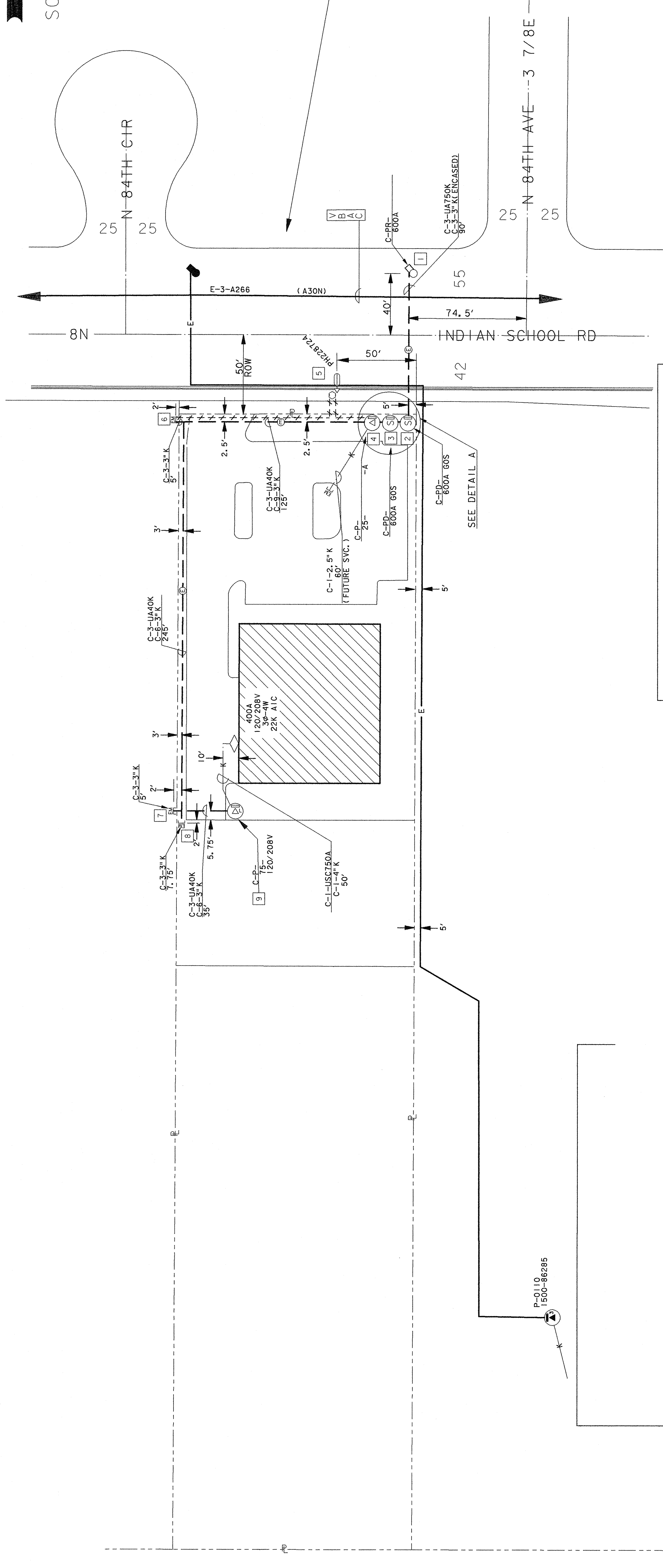
DESIGNER: SMITH

PHONE: (602) 236-XXXX

MBL PHN: (602) 818-XXXX



SCALE: 1" = 40'



TOTAL TRENCH IN R. O. W. = 90'
 TOTAL TRENCH = 629'
 DSD# 0301362

CONTACTS
 INSPECTIONS
 PHONE: (602) 236-XXXX
 (TO SCHEDULE PRECONSTRUCTION MEETING, ALL FOLLOW UP INSPECTIONS & FINAL INSPECTION)
 DESIGNER:
 SMITH
 PHONE: (602) 236-XXXX
 MBL. PHN: (602) 809-XXXX

CUSTOMER PROVIDED SURVEY PROCESS
 NOTE: Refer to Sht 1 for Graphic Symbols used on this Job.
 DRAWN: PROJECT LEADER: JONES
 DATE: PROJECT NO: 82430
 SALT RIVER PROJECT GRID SKETCH WORK AUTHORIZATION
 JOB NO: W-0-KUB-1526
 DATE: 13/16E
 REO: 7/15/16
 JOB NAME: ACME RETAIL CENTER
 LOCATION: 40E BA-27-01 1/4 NE S 27 2N E
 JOB MEMO: 40E BA-27-01 1/4 NE S 27 2N E
 CENTER: 82430
 SHEET 2 OF 2

